BOBBY JINDAL GOVERNOR



PEGGY M. HATCH

SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20100001 Agency Interest No. 4634

Mrs. CaSandra J. Cooper-Gates Senior Vice President Administration LOOP LLC – Port Complex 137 Northpark Drive Covington, Louisiana 70433-5071

RE:

SGO

c: EPA Region VI

Part 70 Operating Permit LOOP LLC - Port Complex

Galliano, Lafourche Parish, Louisiana

Dear CaSandra J. Cooper-Gates:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of ______, 2016, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

	permittee with the oppoint the effective permit.	rtunity to der
Done this	day of	, 2011.
Permit No.:	1560-00027-V0	
Sincerely,		
Sam L. Phill Assistant Sec		

PUBLIC NOTICE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ) LOOP LLC PORT COMPLEX PROPOSED PART 70 AIR OPERATING INITIAL PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on an Initial Part 70 Air Operating Permit for LOOP LLC, 137 Northpark Drive, Covington, Louisiana 70433-5071 for the Port Complex. The facility is located four miles northeast of Galliano, Lafourche Parish.

LOOP LLC requested an initial Part 70 air operating permit for the Port Complex. This facility was permitted under a State Permit No. 1560-00027-03 dated June 12, 2007.

LOOP LLC proposes to expand its Clovelly Dome Storage Terminal and bring the facility under Part 70 requirements as follows:

- 1. Add six (6) 600,000 bbl crude oil storage tanks (Emission Point Nos. 16-10 through 21-10);
- 2. Add one 520 hp Emergency Generator (Emission Point 1-10);
- 3. Include the new tanks and the landing losses in the existing cap (Emission Point TANK CAP);
- 4. Update fugitive emissions based on the modification;
- 5. Update the emissions based on a Reid Vapor Pressure (RVP) change from 5 to 8;
- 6. Update the emissions of the tanks based on the existing tank fittings;
- 7. Remove from the inventory a Turbine Generator (Emission Point 7-78);
- 8. Remove from the inventory a Small Boat Harbor Fire Pump (Emission Point 16-78),
- 9. Update the nomenclature and emissions for the engines based on audit, AP-42 emission factors and source description; and
- 10. Update the insignificant activities based on the audit and modification.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.05	2.34	+ 1.29
SO ₂	22.56	1.88	- 20.68
NO _X	45.56	51.23	+ 5.67
СО	1.76	10.01	+ 8.25
VOC **	93.82	182.59	+ 88.77*
** VOC (TAPs)	3.06	3.70	+ 0.64

* LOOP LLC - Port Complex is now a regulated facility under Prevention of Significant Deterioration (PSD) program; the facility is currently a minor source of criteria pollutants and the current changes do not constitute a major modification.

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. Written comments and/or written requests must be received by 12:30 p.m., Wednesday, April 20, 2011. Written comments will be considered prior to a final permit decision.

Information forwarded by email should follow the statewide email policies. Attachments included with emails may be blocked due to restrictions on file size or type. For details check the following link, http://doa.louisiana.gov/ocs/email/policies.htm

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The proposed permit and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.

Additional copies may be reviewed at LaFourche Parish Library - Golden Meadow Branch, 1403 North Bayou Drive, Golden Meadow, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Syed Quadri, LDEO, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3396.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at DEQ.PUBLICNOTICES@LA.GOV or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.asp.

All correspondence should specify AI Number 4634, Permit Number 1560-00027-V0, and Activity Number PER20100001.

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC Galliano, Lafourche Parish, Louisiana

I. Background

LOOP LLC - Port Complex consists of pipeline terminal facilities existing in Galliano and Leeville located in Lafourche Parish. The LOOP LLC - Port Complex currently operates under Permit No. 1560-00027-03, issued June 12, 2007.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by LOOP LLC on December 23, 2010 requesting a Part 70 operating permit. Additional information as of February 4, 2011 was also received.

III. Description

The LOOP LLC - Port Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leeville, the Fourchon Booster Station in Leeville, and the Marine Offloading Terminal in Grand Isle Block 59 of the Gulf of Mexico. The Clovelly Dome Storage Terminal consists of nine underground storage caverns. These caverns provide storage for crude oil prior to pipeline delivery. Eight of the caverns have a capacity of approximately 6 MM barrels of oil, and one cavern has a capacity of 3 MM barrels of oil. The terminal also consist of surface facilities located in the same general vicinity which include a Brine Storage Reservoir, Operations Building, crude oil storage tanks, fuel and slop oil tanks, a turbine generator, and ancillary equipment. The Small Boat Harbor, which is located on Bayou Lafourche, shelters crew and work boats and includes hose testing facilities. The Fourchon Booster Station is a secured unmanned facility with two large diesel storage tanks and a few small storage tanks. Emission control systems utilized at the LOOP Complex facilities include the latest storage tank technology, mechanical seals on pumps, and low sulfur fuel oil.

LOOP LLC proposes to expand its Clovelly Dome Storage Terminal and bring the facility under Part 70 requirements as follows:

- 1. Add six (6) 600,000 bbl crude oil storage tanks (Emission Point Nos. 16-10 through 21-10);
- 2. Add one 520 hp Emergency Generator (Emission Point 1-10);
- 3. Include the new tanks and the landing losses in the existing cap (Emission Point TANK CAP):
- 4. Update fugitive emissions based on the modification;
- 5. Update the emissions based on a Reid Vapor Pressure (RVP) change from 5 to 8;

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC Galliano, Lafourche Parish, Louisiana

- 6. Update the emissions of the tanks based on the existing tank fittings;
- 7. Remove from the inventory a Turbine Generator (Emission Point 7-78);
- 8. Remove from the inventory a Small Boat Harbor Fire Pump (Emission Point 16-78),
- 9. Update the nomenclature and emissions for the engines based on audit, AP-42 emission factors and source description; and
- 10. Update the insignificant activities based on the audit and modification.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	Change
PM ₁₀	1.05	2.34	+ 1.29
SO ₂	22.56	1.88	- 20.68
NO _X	45.56	51.23	+ 5.67
СО	1.76	10.01	+ 8.25
VOC **	93.82	182.59	+ 88.77*

* LOOP LLC – Port Complex will in future be a regulated facility under Prevention of Significant Deterioration (PSD) program; the facility was previously a minor source of criteria pollutants and the current changes do not constitute a major modification.

**VOC LAC 33:III Chapter 51	Toxic Air Polluta	ants (TAPs):	
Pollutant	Before	After	Change
Acetaldehyde	0.001	0.04	+ 0.04
Benzene	0.924	1.20	+ 0.28
Cumene	0.023	0.03	+ 0.01
Ethyl benzene	0.124	0.15	+ 0.03
Formaldehyde	0.001	0.06	+ 0.06
n-Hexane	0.948	1.12	+ 0.17
Toluene	0.590	0.66	+ 0.07
Xylenes	0.447	0.44	- 0.01
Total	3.06	3.70	0.64
Other VOC		178.89	<u></u>

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a minor source of toxic air pollutants (TAPs) under LAC 33:III.Chapter 51 and an area source under the federal requirements.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge and in *The Lafourche Gazette* in Lafourche Parish on March **, 2011. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on March **, 2011. The draft permit was also submitted to US EPA Region VI on March **, 2011. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by LDEQ to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC Galliano, Lafourche Parish, Louisiana

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
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NA

VIII. General Condition XVII Activities

			Emiss	ion Rates	- tons	
Work Activity	Schedule	PM ₁₀	SO ₂	NO _X	CO	VOC
NA						

IX. Insignificant Activities

ID No.:	Description	Citation
2-78	Diesel Fuel Tank for Turbine Generator (Clovelly Dome), 8,200 gallons	LAC 33:III.501.B.5.A.3
22-78	Diesel Fuel Tank for Emergency Crude Pump (Clovelly Dome), 8,200 gallons	LAC 33:III.501.B.5.A.3
25-88	Tank 3 – Operations Center – Diesel Tank (Clovelly Dome), 550 gallons	LAC 33:III.501.B.5.A.3
26-88	Tank 4 – Operations Center – Diesel Tank (Clovelly Dome), 4,000 gallons	LAC 33:III.501.B.5.A.3
27-88	Tank 5 – Fourchon Booster Station Diesel Tank, 1,000 gallons	LAC 33:III.501.B.5.A.3
28-88	Tank 6 – Fourchon Booster Station Emergency Generator Diesel Tank (Clovelly Dome), 322 gallons	LAC 33:III.501.B.5.A.3
29-88	Tank 7 – Fourchon Booster Station Dock Diesel Tank, 560 gallons	LAC 33:III.501.B.5.A.3
30-88	Tank 8 – Clovelly Day Tank for Fire Pumps, 80 gallons	LAC 33:III.501.B.5.A.2

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC

Galliano, Lafourche Parish, Louisiana

ID No.:	Description	Citation
31-88	Tank 9 – Clovelly Day Tank for Generators, 115 gallons	LAC 33:III.501.B.5.A.2
32-88	Tank 10 - Clovelly Underground Slop Oil Tank by Lab, 2,000 gallons	LAC 33:III.501.B.5.A.3
34-88	Tank 12 – Small Boat Harbor Diesel Tank, 260 gallons	LAC 33:III.501.B.5.A.3
36-89	Day Tank for Operations Center Standby Generator (Clovelly Dome), 94 gallons	LAC 33:III.501.B.5.A.2
37-91	Small Boat Harbor Diesel Tank, 564 gallons	LAC 33:III.501.B.5.A.3
*	Emergency Portable Generator Engines	LAC 33:III.501.B.5.B.45

^{*} Exemption for portable generator engines is granted on the basis that the rental equipment is not subject to the New Source Performance Standard, 40 CFR 60 Subpart IIII or JJJJ and NESHAP and 40 CFR 63 Subpart ZZZZ. In accordance with 40 CFR 1068.31(e), a nonroad engine ceases to be a nonroad engine and becomes a stationary engine if it is used or will be used at this facility for 12 months or longer.

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

Х.	Table 1. Applicable Louisiana and Federal Air Quality Requirements	nd Fe	dera	Air	Qua	lity	Requi	rements						:					'
<u> </u>									LAC.	LAC 33:III.Chapter	Chapte	1:							
No.:	Description	5▲	809	6	=	13	15 21	2103 2104*	2107 2111 2113 2115	11 211	3 211	5 2116*	2121	22	29*	51*	53*	99	*65
UNF01	UNF01 LPC, LOOP - Port Complex	_		-	-		2				2				-	2		-	۲1
EQT03	1-78. Crude Relief Tank (Clovelly Dome)				-														
EQT04	5-78. Slop Oil Tank (Small Boat Harbor)						``	2											,
EQT06	11-78, Fourehon Booster Station Tank No. 1 – Diesel Fuel							2											
EQT07	12-78, Salt Dome Cavities (9), Piping, and Brine Storage Reservoir																		
	(Clovelly Dome)																		
EQT08	13-78. Fourchon Booster Station Tank No. 2 - Diesel Fuel							2											
EQT09	15-78, 805 hp Fourchon Booster Station –Standby Generator				_	_								_					
EQTII	17-78. 671 hp Operations Center Standby Generator (Clovelly Dome)				–	_													
EQT12	18-78, 860 hp Emergency Crude Transfer Pump (Clovelly Dome)					_													
EQT13	19-78, 10 hp Portable Diesel Generator (Clovelly Dome)				-	-													,
EQT14	20-78, Clovelly Fire Pump				-	1													
EQT15	21-78, Standby Generator – Brine Storage Reservoir (Clovelly Dome)				_	_	:												

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC

Galliano, Lafourche Parish, Louisiana

X	Table 1. Applicable Louisiana and Federal Air Qu	id Fe	dera	Air	Qua	ity R	equir	ality Requirements												
ΩI	Description) 1					LA	C 33:	LAC 33:III.Chapter	apter		i						
No.:		2▲	509	6	11 1	13 15	5 2103	2104*	2107	2111	2107[2111]2113[2115	2115	2116*	2121	1 22	29*	51*	53*	56 5	\$65
EQT16	23-88, Tank I Operations Center – Gasoline Tank (Clovelly Dome)						-													
ЕОТ17	24-88, Tank 2 Operations Center – Gasoline Tank (Clovelly Dome)						-													
EQT18	35-88, Fire School Pump (Clovelly Dome)				_	1														
ЕОТ19	38-91, Operations Center Fire Pump (Clovelly Dome)				_	1														
EQ120	5-99, Crude Oil Tank Farm Firewater Pump (Clovelly Dome)													· ·						
EQT21	1-07, Emergency Generator																			
EQT22	2-07, Emergency Generator																			
EQT23	3-07, Emergency Generator																			
EQT24	4-07, Emergency Generator	_																		
EQT25	5-07, Emergency Generator				_															
EQT26	6-07, Emergency Generator				1							-								
EQT27	1-99, Tank 6401 (Clovelly Dome) External Floating Roof (EFR)						_													
EQT28	2-99, Tank 6402 (Clovelly Dome)						-													
EQT29	3-99, Tank 6405 (Clovelly Dome)						-													
EQT30	4-99, Tank 6406 (Clovelly Dome)				\dashv		_												\dashv	

LOOP LLC - Port Complex Agency Interest No.: 4634 1.000 LLC

LOOP LLC Galliano, Lafourche Parish, I		Couisiana
	_	o, Lafourche Paris

×.	Table 1. Applicable Louisiana and Federal Air Qua	d Fec	leral	Air	Quali	ty Re	quire	lity Requirements											
QI	Decoription								LAC	33:1	LAC 33:III.Chapter	apter							
No.:		5 8	509	9 1	1 13	3 15	2103	2104*	2107 2111 2113 2115	2111	2113		2116*	2121	22 2	29* 51	1* 53*	3* 56	5 59*
ЕОТЗІ	6-02, Tank 6409 (Clovelly Dome)		<u> </u>	<u> </u>			ı			-									
EQT32	7-02, Tank 6410 (Clovelly Dome)						_												
EQT33	8-07, Tank 6403 (Clovelly Dome)						_												
EQT34	9-07, Tank 6404 (Clovelly Dome)						1											-	
EQT35	10-07, Tank 6407 (Clovelly Dome)						1												
EQT36	11-07, Tank 6408 (Clovelly Dome)						-			·									
EQT37	12-07, Tank 6411 (Clovelly Dome)						_												
EQT38	13-07, Tank 6412 (Clovelly Dome)																		
EQT39	14-07, Tank 6413 (Clovelly Dome)						-								-				
EQT40	15-07, Tank 6414 (Clovelly Dome)						_					<u>-</u>							
EQT41	16-10, Tank 6415 (Clovelly Dome)						_												
EQT42	17-10, Tank 6416 (Clovelly Dome)						-												
EQT43	18-10, Tank 6417 (Clovelly Dome)						-											, <u></u>	
EQT44	19-10, Tank 6418 (Clovelly Dome)						-			-									
EQT45	20-10, Tank 6419 (Clovelly Dome)						-												
EQT46	21-10, Tank 6420 (Clovelly Dome)						_												
EQT47	1-10, 520 hp Emergency Generator												•						
FUG01	10-78, Fugitive Emissions (Clovelly Dome)									1				2					

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC Galliano, Lafourche Parish, Louisiana

- * The regulations indicated above are State Only regulations.
- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- -The regulations have applicable requirements that apply to this particular emission source.
- -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

X. Tak	X. Table 1. Applicable Louisiana and Federal Air Qu	ral A	ir Q	ualit	y Re	ality Requirements	ment	s											
QI	Documentos			4	O CF	40 CFR 60 NSPS	NSP	ro.			40 CFR 61	R 61		40 CI	FR 6.	3 NES	40 CFR 63 NESHAP	40 CFR	FR
No.:	Description	A	K	KaK	Kb D	Dp D	Dc G	GG KKK	X E	II A		Λ	A	НН	SS	VV	2222	64	89
UNF001	UNF001 LPC, LOOP - Port Complex	-	-		<u> </u>								-						2
EQ1'003	1-78, Crude Relief Tank (EFR) (Clovelly Dome)										$\mid \cdot \mid$								
ЕОТ004	EQT004 5-78, Slop Oil Tank (Small Boat Harbor)			7								== .							
ЕОТ006	11-78, Fourchon Booster Station Tank No 1 - Diesel Fuel			2										. <u>-</u>					
EQT:007	12-78, Salt Dome Cavities (9), Piping, and Brine Storage Reservoir (Clovelly Dome)																		
ЕОТ008	13-78, Fourchon Booster Station Tank No 2 - Diesel Fuel			2												i			
ЕОТОО	15-78, 805 hp Fourchon Booster Station – Standby Generator			· · · · · · · · · · · · · · · · · · ·						2							1		
ЕОТОП	17-78, 671 hp Operations Center Standby Generator (Clovelly Dome)								-	2							-		
EQT012	18-78, 860 hp Emergency Crude Transfer Pump (Clovelly Dome)		. .						, ,	2						-	1		
EQT013									, ,	2							-		
EQT014	20-78. Clovelly Fire Pump								• •	2							1		
EQT015	EQT015 Reservoir (Clovelly Dome)					•				7							_	····	

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC

Louisiana
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Galliano

X. Tal	Table 1. Applicable Louisiana and Federal Air Quality Requirements	-al A	ir Qu	ality	Requ	ireme	ents						' 		:				
Ω				46	40 CFR 60 NSPS	N 09	SPS			40	40 CFR 61	61	4(40 CFR 63 NESHAP	3 63 1	NESI	HAP	40 CFR	CFR
No.:	Description	V	K Ka	a Kb	b Db	Dc	GG	KKK	Ш	A	J	>	٧	нн	SS	۸۸	2222	\$	68
EQT016	23-88, Tank 1 Operations Center – Gasoline Tank (Clovelly Dome)			2									Sub	part (CCC	CC 8	Subpart CCCCCC applies		
EQT017	24-88, Tank 2 Operations Center – Gasoline Tank (Clovelly Dome)			2									Sub	part (CCC	222	Subpart CCCCC applies		
EQT018	35-88, Fire School Pump (Clovelly Dome								2								1		
EQT019	38-91, Operations Center Fire Pump (Clovelly Dome)								2								-		
ЕОТ020	5-99, Crude Oil Tank Farm Firewater Pump (Clovelly Dome)								2								-		
EQT021	EQT021 1-07, Emergency Generator								2								-		
EQT022	EQT022 2-07, Emergency Generator								2								-		
ЕQТ023	3-07, Emergency Generator	-							2								-		
EQT024	EQT024 4-07, Emergency Generator								2								-		
EQT025	EQT025 5-07, Emergency Generator								2								-		
EQT026	6-07, Emergency Generator								2					_			-		
ЕОТ027	EQT027 1-99, Tank 6401 (Clovelly Dome) External Floating Roof			-															
EQT028	2-99, Tank 6402 (Clovelly Dome)			1															
EQT029	EQT029 3-99, Tank 6405 (Clovelly Dome)			1															
ЕQТ030	4-99, Tank 6406 (Clovelly Dome)			-								[
EQT031	EQT031 6-02, Tank 6409 (Clovelly Dome)	\dashv		-															

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC

X. Table 1. Applicable Louisiana and Federal Air Qua	eral (۱ir و		lity Requirements	uirem	ents									į		
ID Description			4	40 CFR 60 NSPS	N 09 ≥	SdS			40 (40 CFR 61		40 (CFR	63 NI	40 CFR 63 NESHAP	40	40 CFR
No.: Cescription	А	X	Ka K	Kb Db	Dc	GG	KKK	IIII	А	J	Λ	A H	нн	SS	VV ZZZZ	64	89
EQT032 7-02, Tank 6410 (Clovelly Dome)																	
EQT033 8-07, Tank 6403 (Clovelly Dome)																	
EQT034 9-07, Tank 6404 (Clovelly Dome)									-								
EQT035 10-07, Tank 6407 (Clovelly Dome)				1													
EQT036 11-07, Tank 6408 (Clovelly Dome)				l													
EQT037 12-07, Tank 6411 (Clovelly Dome)															_		
EQT038 13-07, Tank 6412 (Clovelly Dome)				1	<u>-</u>												
EQT039 14-07, Tank 6413 (Clovelly Dome)				1						_							
EQT040 15-07, Tank 6414 (Clovelly Dome)																	
EQT041 16-10, Tank 6415 (Clovelly Dome)				1													
EQT042 17-10, Tank 6416 (Clovelly Dome)				1													
EQT043 18-10, Tank 6417 (Clovelly Dome)																	
EQT044 19-10, Tank 6418 (Clovelly Dome)									,					<u> </u>			
EQT045 20-10, Tank 6419 (Clovelly Dome)																	
EQT046 21-10, Tank 6420 (Clovelly Dome)														 			
EQT047 1-10, 520 hp Emergency Generator								_				· · · · · ·			-		
FUG001 Dome)																	
		H															

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC Galliano, Lafourche Parish, Louisiana

KEY TO MATRIX

- -The regulations have applicable requirements that apply to this particular emission source.
- -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC

Galliano, Lafourche Parish, Louisiana

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
UNF001	Comprehensive Toxic Air Pollutant	Exempt	40 CFR 63.560(a)(2)	Facility is not a major source of
LPC, LOOP LLC - Port	Emission Control Program			toxic air pollutants as defined
Complex	LAC 33:III.Chapter 51			under LAC 33:III.5103 and
				5105.B -Special Provisions
	Chemical Accident Prevention	Does not apply	40 CFR 68.10	Facility does not store or process any
	Provisions		LAC 33.III.5901	referenced listed substance greater
	40 CFR 68			than the threshold amounts.
	Chemical Accident Prevention and			[LAC 33.III.5901]
	Minimization of Consequences LAC 33:III.Chapter 59			
	LAC 33:III.1503. Emission Standards	Exempt	LAC 33:111.1503.C	All the emission points sources emit
	for Sulfur Dioxide	·		SO ₂ emissions less than 5 tons/year
	Waste Gas Disposal	Does not apply	LAC 33:111.2115	Facility does not have nay waste gas
	LAC 33:III.21.15			streams
EQT004, EQT006, and	Control of Emissions of Organic	Does not apply	LAC 33:111.2103.B	Stored material having the maximum
EQT008 5-78, Slop Oil Tank (Small Boat Harbor), 11-78 and 13-78, Fourchon Booster Station No. 2 Fuel Tank No.	Compounds – Storage of Volatile Organic Compounds LAC 33:III.Chapter 21			true vapor pressure less than the threshold of 1.5 psia
. and 2	NSPS, Subpart Ka	Does not apply	40 CFR 60.110a(a)	Does not store petroleum liquids
		i		

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC

Galliano, Lafourche Parish, Louisiana

XI. Explanation for Exemption Status or Non-Applicability of a Source

AI. EAplanation for EAC	Att. Explanation for Exemption States of from Applications of a Source	or a course		
ID No:	Requirement	Status	Citation	Explanation
EQT009, EQT0011,	NSPS, Subpart IIII - Standards of	Does not apply	40 CFR 60.4200(a)(2)(i)	Engines are not fire pumps and were
EQT013, EQT015, EQT021	EQT013, EQT015, EQT021 Performance for Stationary		40 CFR 60.4200(a)(3)	manufactured prior to April 1, 2006
thru EQT26	Compression Ignition Internal			and were not modified or
Emergency Generator	Combustion Engines			reconstructed after July 11, 2005
Engines	40 CFR 60.4200			
EQT012, EQT014, and	NSPS, Subpart IIII - Standards of	Does not apply	40 CFR 60.4200(a)(2)(ii)	40 CFR 60.4200(a)(2)(ii) Engines were manufactured prior to
EQT018 thru EQT020	Performance for Stationary		40 CFR 60.4200(a)(3)	April 1, 2006 and were not modified
Fire Pump Engines	Compression Ignition Internal			or reconstructed after July 11, 2005
	Combustion Engines			
	40 CFR 60.4200			
FUG001	Control of Emissions of Organic	Does not apply	LAC 33:111.2121.A	Not a listed facility
10-78, Fugitive Emissions.	Compounds - Fugitive Emissions			
(Clovelly Dome)	Control			
	LAC 33:III.Chapter 21			

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

General Information

AI ID: 4634 LOOP LLC - Port Complex Air - Title V Regular Permit Initial Permit Number: 1560-00027-V0 Activity Number: PER20100001

Also Known As:	ō	Name	User Group	Start Date
	1560-00027	LOOP LLC - Port Complex	CDS Number	10-12-1996
	72-0723344	LOOP LLC - Port Complex	Federal Tax ID	11-21-1999
	LAD980698799	LOOP LLC - Port Complex	Hazardous Waste Notification	02-22-1983
	LA0049492	LPDES#	LPDES Permit #	06-25-2003
	WP0330	LWDPS#	LWDPS Permit #	06-25-2003
		Priority 2 Emergency Site	Priority 2 Emergency Site	07-20-2006
		Radiation General License	Radiation License Number	01-09-2002
	29-006030	UST Facility ID #	UST FID #	10-11-2002
	2164	LOOP LLC - Port Complex	Water Permitting	11-21-1999
Physical Location:	4 Mi NE of Galiano, LA			

Mailing Address:

PO Box 7250 Metairie, LA 700107250

29.4625 latitude, -90.305556 longitude, Coordinate Method: Lat.\Long. - DMS, Coordinate Datum: NAD83 Location of Front Gate:

Related People:	Name CaSandra Cooper-Gates	Mailing Address 111 Veterans Blvd Ste 600 Metaine, LA 70005	Phone (Type) 5043639282 (WP)	Relationship Water Billing Party for
	CaSandra Cooper-Gates	111 Veterans Blvd Ste 600 Metairie, LA 70005	5043639282 (WP)	Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	LOOP LLC	137 Northpark Blvd Covington, LA 70433	5043685667 (WP)	Air Billing Party for
	LOOP LLC	137 Northpark Blvd Covington, LA 70433	5043685667 (WP)	UST Billing Party for
	רססש רוכ	137 Northpark Blvd Covington, LA 70433	5043685667 (WP)	Owns
	LOOP LLC	137 Northpark Blvd Covington, LA 70433	5043685667 (WP)	Operates

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please raview the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20100001 Permit Number: 1560-00027-V0 Air - Title V Regular Permit Initial

Subject Item Inventory:

<u>e</u>	Description	Tank Volume	Max. Operating Kate	Normal Operating Rate	Contents	Operating Time
LOOP - Pa	LOOP - Port Complex					4.00
EQT 0003	EQT 0003 1-78 · Crude Relief Tank (Clovelly Dome)	2.31 million gallons		23.1 MM gallons/yr	External Floating Roof (EFR)	8760 hr/yr
EQT 0004	5-78 - Slop Oil Tenk (Small Boat Harbor)	79315 gallons		84000 gallons/yr	wastwater and lube oils	8760 hr/yr
EQT 0006	11-78 - Fourchon Booster Station No. 2 Fuel Tank No. 1	1.18 million gallons		23 MM gallons/yr		8760 hrlyr
EQT 0007	12-78 - Satt Dome Cavities (9), Piping, and Brine Storage Reservoir (Clovelly Dome)	1806 million gallons		600 MM bblyr		8760 hr/yr
EQT 0008	13-78 - Fourthon Booster Station No. 2 Fuel Tank No. 2 (Clovelly Dome)	1.18 million galfons		23 MM gallons/yr		8760 hr/yr
EQT 0009	15-78 - Fourchon Booster Station - Standby Generator		805 horsepower	805 horsepower		500 hrlyr
EQT 0011	17-78 - Operations Center Standby Generator (Clovelly Dome)		671 horsepower	671 horsepower		500 hr/yr
EQT 0012	18-78 - Emergency Crude Transfer Pump (Clovelly Dome)		860 horsepower	860 horsepower		500 hr/yr
EQT 0013	19-78 - Portable Diesel Generator (Clovelly Dome)		10 horsepower	10 horsepower		500 hr/yr
EQT 0014	20-78 - Clovelly Fire Pump			1.92 MM BTU/hr		500 hr/yr
EQT 0015	21.78 - Standby Generator - Brine Storage Reservoir (Clovelly Dome)		108 horsepower	108 horsepower		500 hr/yr
EQT 0016	23-88 - Tank 1 Operations Center (Clovelly Dome)	1000 gallons		9000 gallons/yr		8760 hr/yr
EQT 0017	24-88 - Tank 2 Operations Center (Clovelly Dome)	1000 gallons		9000 gallons/yr		8760 hr/yr
EQT 0018	35-88 - Fire School Pump (Clovelly Dome)		400 horsepower	400 horsepower		500 hr/yr
EQT 0019	38-91 - Operations Center - Fire Pump (Clovelly Dome)		500 horsepower	500 horsepower		500 hrlyr
EQT 0020	5-99 - Crude Oil Tankfarm Firewater Pump (Clovelly Dome)		1100 horsepower	1100 horsepower		500 hr/yr
EQT 0021	1-07 - 470 bhp Emergency Generator (Small Boat Harbor)		470 brake hp	470 brake hp		500 hrlyr
EQT 0022	2-07 - 470 bhp Emergency Generator (Tank Facility)		470 brake hp	470 brake hp		500 hr/yr
EQT 0023	3-07 - 671 bhp Emergency Generator (Clovelly Dome)		671 brake hp	671 brake hp		500 hrlyr
EQT 0024	4-07 - 671 bhp Emergency Generator (Clovelly Control Room)		671 brake hp	671 brake hp		500 hr/yr
EQT 0025	5-07 - 268 bhp Emergency Generator (OC Warehouse)		268 brake hp	268 brake hp		500 hr/yr
EQT 0028	6-07 - 168 bhp Emergency Generator (LOCAP)		168 brake hp	168 brake hp		500 hr/yr
EQT 0027	1-99 - Tank 6401 (Clovelly Dome)	9000009		25000 bbl/day	EFR	8760 hr/yr
EQT 0028	2-99 - Tank 6402 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0029	3-99 - Tank 6405 (Clovelly Dome)	800000 PPI		25000 bbl/day	EFR	8760 hr/yr
EQT 0030	4-99 - Tank 6406 (Clovelly Dome)	600000 bbi		25000 bbl/day	EFR	8760 hr/yr
EQT 0031	6-02 - Tank 6409 (Clovelly Doma)	199 000009		25000 bbl/day	EFR	8760 hr/yr
EQT 0032	7-02 - Tank 6410 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0033	8-07 - Tenk 6403 (Clovelly Dome)	600000 bbi		25000 bbl/day	EFR	8760 hr/yr
EQT 0034	9-07 - Tank 6404 (Clovelly Dome)	600000 bb!		25000 bbl/day	EFR	8760 hr/yr
EQT 0035	10-07 - Tank 6407 (Clovelly Dome)	600000 bbt		25000 bbl/day	EFR	8760 hr/yr
EQT 0036	11-07 - Tank 6408 (Clovelly Dome)	9900009		25000 bbl/day	EFR	8760 hr/yr
EQT 0037	12-07 - Tank 6411 (Clovelly Doma)	199 000009		25000 bbl/day	EFR	8760 hr/yr

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INVENTORIES

AJ ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20100001 Permit Number: 1560-00027-V0 Air - Title V Regular Permit Initial

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Italii tiradii Oli		1		;		•	:	
Description	Tank Volume	Max. Ope	Max. Operating Rate . 1	Normal Operating Rate	Contents	nts	Operating Time	-
LOOP - Port Complex		7			!		:	-
EQT 0038 13-07 - Tank 6412 (Clovelly Dome)	600000 bbi	!		25000 bbl/day	EFR		- 8760 hr/yr	•
EQT 0039 14-07 - Tank 6413 (Clovelly Dome)	600000 551			25000 bbl/day	EFR		8760 hr/yr	1
•	600000 bbl		•	25000 bbl/day	EFR	1 -	8760 hr/yr	ī
•	600000 bbi	; <u>L</u>	•	25000 bbl/day	EFR	•	8760 hr/yr	•
EQT 0042 17-10 - Tank 6416 (Clovelly Dome)	600000 bbl	! ! ! ! ! ! !	1	25000 bbl/day	EFR	→ -	8760 hr/yr	•
*	600000 bbi	1 1 1 1 1 1 1 1		25000 bbl/day	'EFR"	1	8760 hr/yr	•
	600000 bb!			25000 bbl/day	EFR	•	8760 hr/yr	-
	_ 199_ 000009	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	25000 bbl/day	EFR	-	8760 hr/yr	•
	600000 bbi			25000 bbl/day	EFR	-•	8760 hr/yr	•
EQT 0047 1-10 - 520 hp Emergency Generator	 	520 E	520 brake hp	520 brake hp		•	500 hr/yr	•
FUG 0001 10-78 - Fugitive Emissions (Clovelly Dome)	; ; ; ;		: ; ! ; ! !	Not applicable		-• -	8760 hr/yr	•
Stack Information:						•		
(D) Description	!	Valocity	Flow Rate	Diameter	Discharge Area	Heigh	Temperature	
		(fVsec)	(cubic f/min-actual)		(square feet)	1	:	•
LOOP - Port Complex		Fee		; ; ; ;	;	Ç	•	•
EQ. 1009 13-76 - Fourchon Booster Station - Stanoby Generator		767	5014) C:		91	850	
EQT 0011 17-78 - Operations Center Standby Generator (Clovelly Dome)		161	6229			18	865	
		225	5300	SO.		16	880	'T
			212	.33		10	1100	1
EQT 0014 20-78 - Clovelly Fire Pump	1	238	1943	. 42		_12_	185	-
EQT 0015 21-78 - Standby Generator - Brine Storage Reservoir (Clovelly Dome)	[<u>e</u>	212	1087.93		·	10.	1100	
	 !	386.2	790	.21		9	820	
EQT 0019 38-91 - Operations Center - Fire Pump (Clovelly Dome)		386.2	790		1	9	820	-
EQT 0020 5-99 - Crude Oil Tankfarm Firewater Pump (Clovelly Dome)		1.35	104	1.28	:		870	٠
		307.7	3625	5.		9.38	901	1
EQT 0022 2-07 - 470 bhp Emergency Generator (Tank Facility)	1	307.7	3625	··· - <u>s</u> ·		9:38	901	
		220.69	2600	, rù	1	9.83	810	
EQT 0024 4-07 - 671 bhp Emergency Generator (Clovelly Control Room)		220.69	2600	'n		9.83	810	٠
	•	135.94	1130	42	i I	10.25	1056	
		304.9	868	.25		10.58	950	•
EOT 0047 1-10 - 520 hp Emergency Generator]	220.69	2600	. <u>.</u> .		9.83	810	
			!					

Relationships:

TPOR0149

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20100001 Permit Number: 1560-00027-V0 Air - Title V Regular Permit initial

Subject Item Groups:

ID Group Type Group De CRG 0001 Common Requirements Group GP - Generators and Pumps CRG 0002 Common Requirements Group STKS - Storage Tanks GRP 0003 Equipment Group TANK CAP - Crude Oil Storage Tank CAP (Clovelly Dome) UNF 0001 Unit or Facility Wide LPC - LOOP - Port Complex	Group Description (CAP (Clovelly Dome)
---	--

Group Membership:	ilþ:	
•	Description	Member of Groups
EQT 0009	15-78 - Fourchon Booster Station - Standby Generator	CRG000000001
EQT 0011	17.78 - Operations Center Standby Generator (Clovelly Dome)	CRG000000001
EQT 0012	18-78 - Emergency Crude Transfer Pump (Clovelly Dome)	CRG000000001
EQT 0013	19-78 - Portable Diesel Generator (Clovelly Dome)	CRG000000001
EQT 0014	20-78 - Clovelly Fire Pump	CRG000000001
EQT 0015	21-78 - Standby Generator - Brine Storage Reservoir (Clovelly Dome)	CRG000000001
EQT 0018	35-88 - Fire School Pump (Clovelly Dome)	CRG000000001
EQT 0019	38-91 - Operations Center - Fire Pump (Clovelly Dome)	CRG000000001
EQT 0020	5-99 - Crude Oil Tenkfarm Firewater Pump (Clovelly Dome)	CRG000000001
EQT 0021	1-07 - 470 bhp Emergency Generator (Small Boat Harbor)	CRG000000001
EQT 0022	2-07 - 470 bhp Emergency Generator (Tank Facility)	CRG000000001
EQT 0023	3-07 - 671 bhp Emergency Generator (Clovelly Dame)	CRG000000001
EQT 0024	4-07 - 671 bhp Emergency Generator (Clovelly Control Room)	CRG00000001
EQT 0025	5-07 - 268 bhp Emergency Generator (OC Warehouse)	CRG000000001
EQT 0026	6-07 - 168 bhp Emergency Generator (LOCAP)	CRG000000001
EQT 0027	1-99 - Tank 6401 (Clovelly Dome)	CRG000000002, GRP0000000003
EQT 0028	2-99 - Tank 6402 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0029	3-99 - Tank 6405 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0030	4-99 - Tank 6406 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0031	6-02 - Tank 6409 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0032	7-02 - Tank 6410 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0033	8-07 - Tank 6403 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0034	9-07 - Tank 6404 (Clovelly Dome)	CRG000000002, GRP0000000003
EQT 0035	10-07 - Tank 6407 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0036	11-07 - Tank 6408 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0037	12-07 - Tank 6411 (Clovelly Dome)	CRG000000002, GRP0000000003
EQT 0038	13-07 - Tank 6412 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0039	14-07 - Tank 6413 (Clovelly Dome)	CRG000000002, GRP000000003
EQT 0040	15-07 · Tank 6414 (Clovelly Dome)	CRG000000002, GRP0000000003
EQT 0041	16-10 - Tank 6415 (Clovelly Dome)	CRG000000002, GRP0000000003
EQT 0042	17-10 - Tank 6416 (Clovelly Dome)	CRG0000000002, GRP0000000003
EQT 0043	18-10 - Tank 6417 (Clovelly Dome)	CRG000000002, GRP0000000003
EQT 0044	19-10 - Tank 6418 (Clovelly Dome)	CRG000000002, GRP0000000003

INVENTORIES

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20100001 Permit Number: 1560-00027-V0 Air - Title V Regular Permit InItial

Group Membership:

Member of Groups	500000003	GRP000000003
		121-10 - Tank 6420 (Clovelly Dome)
<u>o</u>	EQT 0045	EOT 0046

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1364	1364 Crude Oil Pipeline - Facility with Over 500,000 BBLS Stora	əbi	
	Capacit		

	UNF 001
	ude petroleum pipelines
SIC Codes:	4612 Crude petrole

EMISSION RATES FOR CRITERIA POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20100001

Permit Number: 1560-00027-V0 Air - Title V Regular Permit Initial

	8			NOX			PM10			802			VOC		
Subject Item	Avg ib/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year									
LOOP - Port Complex	Ħ.														
													0.38	0.38	1.65
EGT 0004 5-78													<0.01	<0.01	0.01
EQT 0006													0.10	0.10	0.46
EQT 0007													0.40	0.40	1.74
													0.10	0.10	0.46
	4.43	4.43	1.11	19.32	19.32	4.83	0.56	0.56	0.14	6:0	0.33	0.08	0.57	0.57	0.14
	3.69	3.69	0.92	16.10	16.10	4.03	0.47	0.47	0.12	0.27	0.27	0.07	0.47	0.47	0.12
	4.73	4.73	1.18	20.64	20.64	5.16	09.0	0.60	0.15	0.35	0.35	60:0	0.61	0.61	0.15
	0.07	0.07	0.02	0.31	0.31	0.08	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01
EGT 0014 20-78	1.82	1.82	0.46	8.46	B.46	2.11	0.59	0.59	0.15	0.56	0.56	0.14	0.67	0.67	0.17
EQT 0015 21-78	0.72	0.72	0.18	3.35	3.35	0.84	0.24	0.24	0.06	0.22	0.22	90.0	0.27	0.27	0.07
EQT 0016 23-88													90.0	90'0	0.27
EQT 0017 24-88													90:0	90:0	0.27
	2.67	2.67	0.67	12.40	12.40	3.10	0.88	0.88	0.22	28.0	0.82	0.21	66:0	0.99	0.25
EQT 0019 36-81	3.34	3.34	0.84	15.50	15.50	3.88	1.10	1.10	0.28	1.03	1.03	0.26	1.24	1.24	0.31
EQT 0020	1.34	1.34	0.34	28.92	28.92	7.23	0.18	0.18	0.05	0.44	0.44	0.11	0.45	0.45	0.11
EQT 0021	3.14	3.14	0.78	14.57	14.57	3.64	1.03	1.03	0.26	96:0	96'0	0.24	1.16	1,16	0.29
EQT 0022 2-07	3.14	3.14	0.78	14.57	14.57	3.64	1.03	1.03	0.26	96.0	96:0	0.24	1.16	1.16	0.29
EQT 0023	3.69	3.69	0.92	16.10	16.10	4.03	0.47	0.47	0.12	0.27	0.27	0.07	0.47	0.47	0.12
EQT 0024	3.69	3.69	0.92	16.10	16.10	4.03	0.47	75.0	0.12	0.27	0.27	0.07	0.47	0.47	0.12
EQT 0025 5-07	1.79	1.79	0.45	8.31	8.31	2.08	0.59	0.59	0.15	0.55	0.55	0.14	0.66	99.0	0.17
EQT 0026	1.12	1.12	0.28	5.21	5.21	1.30	0.37	0.37	60.0	0.34	0.34	60.0	0.41	0.41	0.10
EQT 0047	0.62	0.62	0.16	4.98	4.98	1.25	0.64	0.64	0.16	<0.01	<0.01	<0.01	0.07	0.07	0.02

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TPOR0145

EMISSION RATES FOR CRITERIA POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20100001 Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

THE REPORT OF THE PERSON OF TH							
Subject Item Avg Ib/hr Max Ib/hr Tons/Year Avg Ib/hr Max Ib/hr Tons/Year	Tons/Year Avg lothr Max lothr Tons/Year Avg lothr Max lothr Tons/Year Avg lothr Max lothr Tons/Year	Tons/Year A	lvg lb/hr Ma	x lb/hr Tons/	Year Avg lb/h	Max Ib/hr	Tons/Year
LOOP - Port Complex		-			-		
FUG 0001			•		. <0.01	<0.01	<0.01
GRP 0003 TANK CAP	· · · · · · · · · · · · · · · · · · ·	···	:		. 40.02		175.28

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20100001 Permit Number: 1560-00027-V0 Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0019 38-91	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.004	0.004	<0.01
EQT 0020 5-99	Benzene	0.01	0.01	<0.01
	Toluene	0.002	0.002	<0.01
EQT 0021 1-07	Acetaldehyde	0.003	0.003	<0.01
	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.004	0.004	<0.01
EQT 0022 2-07	Acetaldehyde	0.003	0.003	<0.01
	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.004	0.004	<0.01
EQT 0023 3-07	Benzene	0.004	0.004	<0.01
EQT 0024 4-07	Benzene	0.004	0.004	<0.01
EQT 0025 3-07	Formaldehyde	0.002	0.002	<0.01
EQT 0047 1-10	Acetaldehyde	0.003	0.003	<0.01
	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.004	0.004	<0.01
GRP 0003 TANK CAP	Benzene	0.23		1.03
	Cumene	<0.01		0.02
	Ethyl benzene	0.03		0.11
	Toluene	0.13		0.58
	Xylene (mixed isomers)	0.08		0.35
	n-Hexane	0.25		1.07
UNF 0001 LPC	Acetaldehyde			0.04
	Benzene			1.20
	Currene			0.03
	Ethyl benzene			0.15
	Formaldehyde			0.06
	Toluene			0.66
	Xylene (mixed isomers)			0.44
	n-Hexane			1.12

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20100001 Permit Number: 1560-00027-V0 Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 0003 -78	Benzene	0.004	0.004	0.02	
	Ethyl benzene	<0.01	<0.01	0.01	
	Toluene	0.002	. 0.002	. 0.01	
	Xylene (mixed isomers)	<0.01	<0.01	0.01	
	n-Hexane	0.004	0.004	0.02	
QT 0006	Benzene	<0.01	<0.01	<0.01	
	Ethyl benzene	<0.01	<0.01	<0.01	
	Toluene	0.002	0.002	0.01	
	Xylene (mixed isomers)	0.01	0.01	0.03	
QT 0007 ?-78	Benzene	0.002	0.002	0.01	
	Cumene	<0.01	<0.01	<0.01	
	Ethyl benzene	0.002	0.002	0.01	
	Toluene	0.004	0.004	0.02	
	Xylene (mixed isomers)	0.01	0.01	0.02	
	n-Hexane	0.002	0.002	0.01	
EQT 0008 13-78	Benzene	<0.01	<0.01	<0.01	
	Ethyl benzene	<0.01	<0.01	· <0.01	
	Toluene	<0.01	<0.01	0.01	
	Xylene (mixed isomers)	0.01	0.01	0.03	
QT 0009 5-78	Benzene	0.004	0.004	<0.01	
QT 0011 7-78	Benzene	0.004	0.004	<0.01	
QT 0012 3-78	Benzene	0.005	0.005	<0.01	
QT 0014 0-78	Formaldehyde	0.002	0.002	<0.01	
QT 0016	Benzene	<0.01	<0.01	<0.01	
	Toluene	· <0.01	<0.01	<0.01	
	n-Hexane	<0.01	<0.01	0.01	
QT 0017 4-88	Benzene	<0.01	<0.01	<0.01	
	Toluene	<0.01	<0.01	<0.01	
	n-Hexane	<0.01	<0.01	· ' <0.01	
QT 0018 5-88	Acetaldehyde	0.002	0.002	<0.01	
	Benzene	0.003	0.003	<0.01	
	Formaldehyde	0.003	0.003	<0.01	
QT 0019 8-91	t .Acetaldehyde	0.003	0.003	· <0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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EQT 0003 1-78 - Crude Relief Tank (Clovelly Dome)

-	[40 CFR 60.112a(a)(1)(i)(A)]	Seal gap width <= 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted
		primary scal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)] Which Months: All Year Statistical Basis: None specified
7	2 [40 CFR 60.112a(a)(1)(i)(A)]	Seal gap area <= 10.0 in^2/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)] Which Months: All Year Statistical Basis: None specified
3	3 [40 CFR 60.112a(a)(1)(i)(C)]	One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.1124(a)(1)(i)(C)]
4	[40 CFR 60.112a(a)(1)(i)(D)]	There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
\$	[40 CFR 60.112a(a)(1)(i)]	The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]
9	[40 CFR 60.112a(a)(1)(ii)(A)]	Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
7	7 [40 CFR 60.112a(a)(1)(ii)(B)]	Seal gap width <= 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)] Which Months: All Vert. Statistical Basis: None specified.
∞	[40 CFR 60.112a(a)(1)(ii)(B)]	Seal gap area <= 1.0 in^2/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoc or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)] Which Months: All Year Statistical Basis: None specified
6	[40 CFR 60.112a(a)(1)(ii)(C)]	There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]
01	10 [40 CFR 60.112a(a)(1)(iii)]	Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder
		vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
=	1] [40 CFR 60.112a(a)(1)(iv)]	Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
12	12 [40 CFR 60.112a(a)(1)]	Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling

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when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR

60.112a(a)(1)]

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EQT 0003 1-78 - Crude Relief Tank (Clovelly Dome)

Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(ii)(A))	Which Months: All Year—Statistical Basis: None specified Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(ii).	Which Months: All Year—Statistical Basis: None specified Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement by 40 CFP 60 113(3)(19ii). Keep records of each	gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)] Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to	bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(E)] Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR	60.113a(a)(1)(iv)] Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the petroleum liquid storage and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Kat all timesa.	Equip with a submerged fill pipe. Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.	Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.	Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.	Which Months: All Year Statistical Basis: None specified Scal gaps between the primary scal and tank wall that exceed 1/8 inch (0.32 cm) in width.	Which Months: All Year—Statistical Basis: None specified Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. Which Months: All Year—Statistical Basis: None specified Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
13 [40 CFR 60.113a(a)(1)(i)(A)]	14 [40 CFR 60.113a(a)(1)(i)(B)]	[40 CFR 60.113a(a)(1)(t)(D)]	16 [40 CFR 60.113a(a)(1)(i)(E)]	17 [40 CFR 60.113a(a)(1)(iv)]	18 (40 CFR 60.115a)	[LAC 33:111.2103.B] [LAC 33:111.2103.D.2.a]	[LAC 33:III.2103.D.2.b]	[LAC 33:111.2103.D.2.c]	23 [LAC 33:III.2103.D.2.d]	24 [LAC 33:III.2103.D 2.e] 25 [LAC 33 III.2103.D.2 e]
13	7	15	91	17	<u>8</u>	19	21	22	23	24

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EQT 0003 1-78 - Crude Relief Tank (Clovelly Dome)

EQT 0016 23-88 - Tank 1 Operations Center (Clovelly Dome)

Permittee shall not handle dispensing of gasoline in a manner that would result in vapor releases to the atmosphere for extended period of time. The following measures, not all inclusive, shall be undertaken:	a) minimize gasoline spills; b) clean up spills as expeditiously as practicable; c) cover all open gasoline containers and all gasoline storage tank ill-pipes with a gasketed seal when not in use; d) minimize gasoline sent to open waste collection system that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators; and e) keep records available within 24 hours of a request by the Administrator to document gasoline throughput. [40 CFR 63.11116(a), 40 CFR 63.11116(b)] Equip with a submerged fill pipe. Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.L.1 - 7, as applicable.
34 [40 CFR 63.11116(a)]	35 [LAC 33:III.2103.A] 36 [LAC 33:III.2103.H.3] 37 [LAC 33:III.2103.I]

EQT 0017 24-88 - Tank 2 Operations Center (Clovelly Dome)

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EQT 0017 24-88 - Tank 2 Operations Center (Clovelly Dome)

38	38 [40 CFR 63.11116(a)]	Permittee shall not handle dispensing of gasoline in a manner that would result in vapor releases to the atmosphere for extended period of time. The following measures, not all inclusive, shall be undertaken:
39	39 [LAC 33:III.2103.A]	a) minimize gasoline spills; b) clean up spills as expeditiously as practicable; c) cover all open gasoline containers and all gasoline storage tank ill-pipes with a gasketed seal when not in use; d) minimize gasoline sent to open waste collection system that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators; and c) keep records available within 24 hours of a request by the Administrator to document gasoline throughput. [40 CFR 63.11116(a), 40 CFR 63.11116(b)] Equip with a submerged fill pipe.
40	[LAC 33:111.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
4	[LAC 33:111.2103.1]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
EQT	EQT 0047 1-10 - 520 hp Emergency Generator	ency Generator
42	42 [40 CFR 60.4205(b)]	Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart IIII, [40 CFR 60.4205(b)]
43	43 [40 CFR 60.4206]	Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart IIII.
44	44 [40 CFR 60.4207(b)]	Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart IIII. [40 CFR 60.4207(b)]
45	45 [40 CFR 60.4208(a)]	After December 31, 2008, do not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines. Subpart IIII. [40 CFR 60.4208(a)]. [40 CFR 60.4208(a)]
46	46 [40 CFR 60 4209(a)]	Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)] Which Months: All Year Statistical Basis: None specified
47	47 [40 CFR 60.4211(a)]	Operate and maintain the stationary Cl internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart 1111, 140 CFR 60.4211(a)
48	48 [40 CFR 60.4211(c)]	Ensure engine is certified to the emission standards in 40 CFR 60.4205(b), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.42116.]
49	49 [40 CFR 60.4214(b)]	Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards

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Compliance with all the applicable provisions of NSPS, 40 CFR 60 Subpart IIII has been determined to be compliance in accordance with all the

appilcable requirements of NESHAP, 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6590(c)]

operation during that time. Subpart IIII. [40 CFR 60.4214(b)]

50 [40 CFR 63 6590(c)]

applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in

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EQT 0047 1-10 - 520 hp Emergency Generator

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. 51 [LAC 33:11[.1101.B]

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. 52 (LAC 33:111.1311.C)

Which Months: All Year Statistical Basis: Six-minute average

FUG 0001 10-78 - Fugitive Emissions (Clovelly Dome)

Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. 53 [LAC 33:111.2111]

GRP 0003 TANK CAP - Crude Oil Storage Tank CAP (Clovelly Dome)

Graup Members: EQT 0027 EQT 0028 EQT 0029 EQT 0030 EQT 0031 EQT 0031 EQT 0034 EQT 0034 EQT 0036 EQT 0048 EQT 0049 EQT 0044 EQT 0041 EQT 0041 EQT 0041 EQT 0041 EQT

54 [LAC 33:III.507.H.1.a] Per

EQT 0045 EQT 0046

CAP based on the throughput and landing losses from all the tanks listed below to no more than 175.28 tons per year. The overall VOC emission Permittee shall show compliance with the limits of this permit by maintaining the total overall calculated VOC emissions, Emission Point TANK Office of Environmental Compliance, Surveillance Division. Total overall calculated VOC emissions from the tanks above the maximum listed of the tanks shall be calculated using tank throughput and landing losses shall be recorded each month, as well as the VOC emission calculated Environmental Compliance, Enforcement Division. A report showing the overall calculated VOC emissions shall be submitted to the Office of for all the tanks for the last twelve months and recorded each month. These records shall be kept on site and available for inspection by the in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year

Emisson Point 1-99 thru 4-99, 6-02, 7-02, 8-07 thru 15-07, and 16-10 thru 21-10.

CRG 0001 GP - Generators and Pumps

Group Members: EQT 0009EQT 0011EQT 0011EQT 0013EQT 0014EQT 0018EQT 0018EQT 0019EQT 0020EQT 0021EQT 0023EQT 0024EQT 002

Comply with the applicable emission limitations and operating limitations under the provisions of NESHAP, 40 CFR 63 Subpart ZZZZ no later than May 3, 2013. [40 CFR 63.6595(a)] 55 [40 CFR 63.6595(a)]

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CRG 0001 GP - Generators and Pumps

99	56 [40 CFR 63.6603(a)]	Equipment/operational data monitored by visual inspection/determination annually or every 1,000 hours of operation, whichever comes first. Inspect air cleaner. Subpart ZZZZ. [40 CFR 63.6603(a)] Which Months: All Year Statistical Basis: None specified
57	57 [40 CFR 63.6603(a)]	Equipment/operational data monitored by visual inspection/determination annually or every 500 hours of operation, whichever comes first. Inspect all hoses and belts, and replace as necessary. Subpart ZZZZ. [40 CFR 63.6603(a)] Which Months: All Year Statistical Basis: None specified
28	[40 CFR 63.6603(a)]	Change oil and filter every 500 hours of operation or annually, whichever comes first. Subpart ZZZZ. [40 CFR 63.6603(a)]
59	[40 CFR 63.6603(a)]	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine not to exceed 30 minutes. Subnart 2222, [40 CFR 63 6603(a) 40 CFR 63 6625(h)]
09	[40 CFR 63.6605(a)]	Be in compliance with emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ at all times. Subpart ZZZZ. [40 CFR 63 5605(a)]
61	[40 CFR 63.6605(b)]	Operate and maintain at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. Subpart ZZZZ, [40 CFR 63,6605(b)]
62	[40 CFR 63.6625(e)]	Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Subnart 2727, [40 CFR 63 6655(e)]
63	[40 CFR 63.6625(f)]	Install a non-resettable hour meter. Subpart ZZZZ. [40 CFR 63.6625(f)]
64	[40 CFR 63.6640(a)]	Demonstrate continuous compliance with each applicable emission limitation and operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]
65	[40 CFR 63.6640(f)(1)(ii)]	Operations: Operations of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Limit maintenance checks and readiness testing to 100 hours per year. Subpart 7777, [40 CFP 63 6400 011 1913]
99	[40 CFR 63.6640(f)(1)(iii)]	Operate up to 50 hours per year in non-emergency situations, but count those 50 hours towards the 100 hours per year provided for maintenance and testing. Do not use the 50 hours per year for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that the emergency engine may be operated for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. Do not operate for more than 30 minutes prior to
67	67 [40 CFR 63.6655]	the time when the emergency condition is expected to occur, and terminate the engine operation immediately after the facility is notified that the emergency condition is no longer imminent. Count the 15 hours per year of demand response operation as part of the 50 hours of operation per year provided for non-emergency situations. Subpart ZZZZ. [40 CFR 63.6640(f)(1)(iii)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.6655(a) through (f), as applicable. Subpart ZZZZ.

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CRG 0001 GP - Generators and Pumps

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3 [LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute
[LAC33:III.1311.C]	Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

CRG 0002 STKS - Storage Tanks

Group Members: EQT 0027EQT 0028EQT 0020EQT 0030EQT 0031EQT 0033EQT 0034EQT 0035EQT 0036EQT 0037EQT 0039EQT 0049EQT 0040EQT 0041EQT 0041EQT 0043EQT 0043EQT 0044 EQT 0045EQT 0046

2	70 [40 CFR 60.112b(a)(2)(ii)]	Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the
		liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to one when the roof is being floated off the roof less supports or at the manufacturer's recommended setting. Fouring automatic bleeder
		vents no open with an early sound in the second management of the second representation of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
7	71 [40 CFR 60.112b(a)(2)]	Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals,
		secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal
		shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60 113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill
		- 5
		refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
72	72 [40 CFR 60.113b(b)(3)]	ace area of each
		nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
73	73 [40 CFR 60.113b(b)(4)(i)(A)]	One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the
		stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
74	74 [40 CFR 60.113b(b)(4)(i)(B)]	There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]

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Air - Title V Regular Permit Initial

CRG 0002 STKS - Storage Tanks

75	75 [40 CFR 60.113b(b)(4)(i)]	Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] Which Months: All Vear Statistical Basis: None specified
76	76 [40 CFR 60.113b(b)(4)(i)]	Seal gap area <= 212 cm ² 2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] Which Months: All Year. Statistical Basis: None specified
11	77 [40 CFR 60.113b(b)(4)(ii)(A)]	Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subnart Kb. [40 CFR 60.113b(b)(4)(ii)]
78	78 [40 CFR 60.113b(b)(4)(ii)(B)]	Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
79	79 {40 CFR 60.113b(b)(4)(ii)(B)]	winch months. All Teal Statistical Basis, Note specified Scal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary scal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
80	[40 CFR 60.113b(b)(4)(ii)(C)]	There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
≅	[40 CFR 60.113b(b)(4)]	Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) excent as specified in 40 CFR 60.113b(b)(4) (iii) excent as specified in 40 CFR 60.113b(b)(4) (iiii) excent as specified in 40 CFR 60.113b(b)(4) (iiii) excent as specified in 40 CFR 60.113b(b)(4) (iiii) excent as specified in 40 CFR 60.113b(b)(4) (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
82	82 [40 CFR 60.113b(b)(5)]	Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
83	[40 CFR 60.113b(b)(6)(i)}	If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40, CFR 60, 13 McM 60.13]
**	[40 CFR 60.113b(b)(6)(ii)]	Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by
85	85 [40 CFR 60.113b(b)(6)]	express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)} Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
98	86 [40 CFR 60.115b(b)(1)]	Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]

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SPECIFIC REQUIREMENTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER2010001

Activity Number: PER20100001 Permit Number: 1560-00027-V0 Air - Title V Regular Permit Initial

CRG 0002 STKS - Storage Tanks

Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]	Gap measurement(s) recordiscepting by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]		Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]	_ % _	Submit notification: Due within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. Subpart Kb. [40 CFR 60.116b(d)]	Equip with a submerged fill pipe.	Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.	Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.	Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.	Which Months: All Year Statistical Basis: None specified Seal gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.	Which Months: All Year—Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven date of conditions with 1 AC 33:III.2103.D.2, and the date(s) that the standards are not met.		Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. Which Months: All Year Statistical Basis: None specified
87 [40 CFR 60.115b(b)(2)]	[40 CFR 60.115b(b)(3)]	89 [40 CFR 60.115b(b)(4)]	90 [40 CFR 60.116b(b)]	91 [40 CFR 60.116b(c)]	[40 CFR 60.116b(d)]	[LAC 33:111.2103.B]	[LAC 33:111.2103.D.2.a]	[LAC 33:III.2103.D.2.b]	96 [LAC 33:III.2103.D.2.c]	97 [LAC 33:III.2103.D.2.d]	98 [LAC 33:III.2103.D.2.e]	[LAC 33:111.2103.D.2.e]	100 [LAC 33:III.2103.D.2.c]
8	8 6	88	8	16	92	93	8	95	96	97	86	66	100

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SPECIFIC REQUIREMENTS

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CRG 0002 STKS - Storage Tanks

Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. Which Months: All Year Statistical Basis: None specified	Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. Which Months: All Year—Statistical Basis: None specified	Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keen automatic bleeder vents closed	at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.	Equip all covers, seals, lids, automatic bleeder vents and rim space vents with gaskets.	Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.	Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1.	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
101 [LAC 33.III.2103.D.2.e]	102 [LAC 33:111.2103.D.2.e]	103 [LAC 33 III.2103.D.3]		104 [LAC 33:III.2103.D.3]	105 [LAC 33:111.2103.D]	106 [LAC 33:HL2103.H.1]	107 [LAC 33:111.2103.H.3] 108 [LAC 33:111.2103.I]

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SPECIFIC REQUIREMENTS

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UNF 0001 LPC - LOOP - Port Complex

Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:1. Chapter 39, Notification Regulations No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. standards to be exceeded. 133 [LAC 33:III.929.A] 132 [LAC 33:111.927]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF ENVIRONMENTAL SERVICES

STATEMENT OF BASIS¹

PROPOSED PART 70 OPERATING PERMIT 1560-00027-V0 PORT COMPLEX LOOP LLC

GALLIANO, LAFOURCHE PARISH, LOUISIANA
Agency Interest (AI) No. 4634
Activity No. PER20100001

I. APPLICANT

The applicant is:

LOOP LLC

137 Northpark Dr. Covington, LA 70433

Facility:

Port Complex

SIC Code:

4612

Location:

Four miles northeast of Galliano.

II. PERMITTING AUTHORITY

The permitting authority is: Louisiana Department of Environmental Quality

Office of Environmental Services

P.O. Box 4313

Baton Rouge, Louisiana 70821-4313

III. CONTACT INFORMATION

Additional information may be obtained from:

Mr. Syed Quadri P.O. Box 4313

Baton Rouge, Louisiana 70821-4313

Phone: (225) 219-3181

IV. FACILITY BACKGROUND AND CURRENT PERMIT STATUS

LOOP LLC - Port Complex consists of pipeline terminal facilities existing in Galliano and Leeville located in Lafourche Parish. The LOOP LLC - Port Complex currently operates under Permit No. 1560-00027-03, issued June 12, 2007.

This will be the initial Part 70 permit for the Port Complex and addresses all emissions unit at the Port Complex.

¹ 40 CFR 70.7(a)(5) and LAC 33:III.531.A.4 require the permitting authority to "provide a statement that sets forth the legal and factual basis for the proposed permit conditions of any permit issued to a Part 70 source, including references to the applicable statutory or regulatory provisions."

PORT COMPLEX LOOP LLC GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

V. PROPOSED PERMIT/PROJECT INFORMATION

A permit application and Emission Inventory Questionnaire were submitted by LOOP LLC on December 23, 2010 requesting a Part 70 operating permit

Pursuant to LAC 33:III.519.A.4, a notice of the completeness determination was published in *The LaFourche Gazette*, LaFourche Parish, Louisiana, on January 12, 2011.

Additional information as of February 4, 2011 was also received.

Process Description

The LOOP LLC – Port Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leeville, the Fourchon Booster Station in Leeville, and the Marine Offloading Terminal in Grand Isle Block 59 of the Gulf of Mexico. The Clovelly Dome Storage Terminal consists of nine underground storage caverns. These caverns provide storage for crude oil prior to pipeline delivery. Eight of the caverns have a capacity of approximately 6 MM barrels of oil, and one cavern has a capacity of 3 MM barrels of oil. The terminal also consist of surface facilities located in the same general vicinity which include a Brine Storage Reservoir, Operations Building, crude oil storage tanks, fuel and slop oil tanks, a turbine generator, and ancillary equipment. The Small Boat Harbor, which is located on Bayou Lafourche, shelters crew and work boats and includes hose testing facilities. The Fourchon Booster Station is a secured unmanned facility with two large diesel storage tanks and a few small storage tanks. Emission control systems utilized at the LOOP Complex facilities include the latest storage tank technology, mechanical seals on pumps, and low sulfur fuel oil.

Proposed Modifications

LOOP LLC proposes to expand its Clovelly Dome Storage Terminal and bring the facility under Part 70 requirements as follows:

- 1. Add six (6) 600,000 bbl crude oil storage tanks (Emission Point Nos. 16-10 through 21-10):
- 2. Add one 520 hp Emergency Generator (Emission Point 1-10);
- 3. Include the new tanks and the landing losses in the existing cap (Emission Point TANK CAP);
- 4. Update fugitive emissions based on the modification:
- 5. Update the emissions based on a Reid Vapor Pressure (RVP) change from 5 to 8:
- 6. Update the emissions of the tanks based on the existing tank fittings;

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- 7. Remove from the inventory a Turbine Generator (Emission Point 7-78);
- 8. Remove from the inventory a Small Boat Harbor Fire Pump (Emission Point 16-78),
- 9. Update the nomenclature and emissions for the engines based on audit, AP-42 emission factors and source description; and
- 10. Update the insignificant activities based on the audit and modification.

VI. ATTAINMENT STATUS OF PARISH

<u>Pollutant</u>	Attainment Status	Designation
PM _{2.5}	Attainment	N/A
PM ₁₀	Attainment	N/A
SO ₂	Attainment	N/A
NO ₂	Attainment	N/A
CO	Attainment	N/A
Ozone ²	Attainment	N/A
Lead	Attainment	N/A

VII. PERMITTED AIR EMISSIONS

Sources of air emissions are listed on the "Inventories" page of the proposed permit. Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.05	2.34	+ 1.29
SO ₂	22.56	1.88	- 20.68
NO _X	45.56	51.23	+ 5.67
СО	1.76	10.01	+ 8.25
VOC **	93.82	182.59	+ 88.77

PM₁₀ and VOC compounds classified as LAC 33:III.Chapter 51-regulated toxic air pollutants (TAP) are speciated below. This list encompasses all Hazardous Air Pollutants (HAP) regulated pursuant to Section 112 of the Clean Air Act. Note, however, all TAPs are not HAPs (e.g., ammonia, hydrogen sulfide).

² VOC and NO_x are regulated as surrogates.

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**VOC LAC 33:III Chapter 51	Toxic Air Polluta	ants (TAPs):	
Pollutant	Before	After	Change
Acetaldehyde	0.001	0.04	+ 0.04
Benzene	0.924	1.20	+ 0.28
Cumene	0.023	0.03	+ 0.01
Ethyl benzene	0.124	0.15	+ 0.03
Formaldehyde	0.001	0.06	+ 0.06
n-Hexane	0.948	1.12	+ 0.17
Toluene	0.590	0.66	+ 0.07
Xylenes	0.447	0.44	- 0.01
Total	3.06	3.70	+ 0.64
Other VOC		178.89	

Port Complex is a major source of criteria pollutants, a minor source of HAPs, and a minor source of TAPs. Port Complex is considered as a minor source under the provisions of LAC 33:III.Chapter 51 and an area source of HAPs under the federal requirements.

Permitted limits for individual emissions units and groups of emissions units, if applicable, are set forth in the tables of the proposed permit entitled "Emission Rates for Criteria Pollutants" and "Emission Rates for TAP/HAP & Other Pollutants." These tables are part of the permit.

Emissions calculations can be found in Appendix D of the permit application. The calculations address the manufacturer's specifications, fuel composition (e.g., sulfur content), emissions factors, and other assumptions on which the emissions limitations are based and have been reviewed by the permit writer for accuracy.

PORT COMPLEX LOOP LLC GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

General Condition XVII Activities

Very small emissions to the air resulting from routine operations that are predictable, expected, periodic, and quantifiable and that are submitted by the applicant and approved by the Air Permits Division are considered authorized discharges. These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. However, such emissions are considered when determining the facility's potential to emit for evaluation of applicable requirements. Approved General Condition XVII activities are noted in Section VIII of the proposed permit.

Insignificant Activities

The emissions units or activities listed in Section IX of the proposed permit have been classified as insignificant pursuant to LAC 33:III.501.B.5. By such listing, the LDEQ exempts these sources or types of sources from the requirement to obtain a permit under LAC 33:III.Chapter 5. However, such emissions are considered when determining the facility's potential to emit for evaluation of applicable requirements.

VIII. REGULATORY APPLICABILITY

Regulatory applicability is discussed in three sections of the proposed permit: Section X (Table 1), Section XI (Table 2), and Specific Requirements. Each is discussed in more detail below.

Section X (Table 1): Applicable Louisiana and Federal Air Quality Requirements

Section X (Table 1) summarizes all applicable federal and state regulations. In the matrix, a "1" represents a regulation applies to the emissions unit. A "1" is also used if the emissions unit is exempt from the emissions standards or control requirements of the regulation, but monitoring, recordkeeping, and/or reporting requirements apply.

A "2" is used to note that the regulation has requirements that would apply to the emissions unit, but the unit is exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified, or reconstructed since the regulation has been effective. If the specific criterion changes, the emissions unit will have to comply at a future date. Each "2" entry is explained in Section XI (Table 2).

A "3" signifies that the regulation applies to this general type of source (e.g., furnace, distillation column, boiler, fugitive emissions, etc.), but does not apply to the particular emissions unit. Each "3" entry is explained in Section XI (Table 2).

If blank, the regulation clearly does not apply to this type of emissions unit.

Section XI (Table 2): Explanation for Exemption Status or Non-Applicability of a Source

PORT COMPLEX LOOP LLC LANGE LATOURCHE PARISH LOUISI

GALLIANO, LAFOURCHE PARISH, LOUISIANA Agency Interest (AI) No. 4634

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Section XI (Table 2) of the proposed permit provides explanation for either the exemption status or non-applicability of given federal or state regulation cited by 2 or 3 in the matrix presented in Section X (Table 1).

Specific Requirements

Applicable regulations, as well as any additional monitoring, recordkeeping, and reporting requirements necessary to demonstrate compliance with both the federal and state terms and conditions of the proposed permit, are provided in the "Specific Requirements" section. Any operating limitations (e.g., on hours of operation or throughput) are also set forth in this section. Associated with each Specific Requirement is a citation of the federal or state regulation upon which the authority to include that Specific Requirement is based.

1. Federal Regulations

40 CFR 60 – New Source Performance Standards (NSPS)

The following subparts are applicable at the Port Complex: A, Ka, Kb and IIII. Applicable emission standards, monitoring, test methods and procedures, recordkeeping, and reporting requirements are summarized in the "Specific Requirements" section of the proposed permit.

40 CFR 61 - National Emission Standards for Hazardous Air Pollutants (NESHAP)

No NESHAP provisions are applicable to the Port Complex.

40 CFR 63 - Maximum Achievable Control Technology (MACT)

The following subparts are applicable at the Fort Complex: A, ZZZZ, and CCCCCC. Applicable emission standards, monitoring, test methods and procedures, recordkeeping, and reporting requirements are summarized in the "Specific Requirements" section of the proposed permit.

Clean Air Act §112(g) or §112(j) - Case-By-Case MACT Determinations

A case-by-case MACT determination pursuant to §112(g) or §112(j) of the Clean Air Act was not required.

40 CFR 64 – Compliance Assurance Monitoring (CAM)

Per 40 CFR 64.2(a), CAM applies to each pollutant-specific emissions unit (PSEU) that 1) is subject to an emission limitation or standard, 2) uses a control devices to achieve compliance, and 3) has potential pre-control device emissions that are equal to or greater than 100 percent of the amount, in TPY, required for a source to be classified as a major source.

PORT COMPLEX LOOP LLC GALLIANO, LAFOURCHE PARISH, LOUISIANA Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

Port Complex is not subject to CAM requirements

Acid Rain Program

The Acid Rain Program, 40 CFR Part 72 – 78, applies to the fossil fuel-fired combustion devices listed in Tables 1-3 of 40 CFR 73.10 and other utility units, unless a unit is determined not to be an affected unit pursuant to 40 CFR 72.6(b). LDEQ has incorporated the Acid Rain Program by reference at LAC 33:III.505. Port Complex is not subject to the Acid Rain Program.

2. SIP-Approved State Regulations

Applicable state regulations are also noted in Section X (Table 1) of the proposed permit. Some state regulations have been approved by the U.S. Environmental Protection Agency (EPA) as part of Louisiana's State Implementation Plan (SIP). These regulations are referred to as "SIP-approved" and are enforceable by both LDEQ and EPA. All LAC 33:III.501.C.6 citations are federally enforceable unless otherwise noted.

3. State-Only Regulations

Individual chapters or sections of LAC 33:III noted by an asterisk in Section X (Table 1) are designated "state-only" pursuant to 40 CFR 70.6(b)(2). Terms and conditions of the proposed permit citing these chapters or sections are not SIP-approved and are not subject to the requirements of 40 CFR Part 70. These terms and conditions are enforceable by LDEQ, but not EPA. All conditions not designated as "state-only" are presumed to be federally enforceable.

IX. NEW SOURCE REVIEW (NSR)

1. Prevention of Significant Deterioration (PSD)

The facility's source category is listed in Table A of the definition of "major stationary source" in LAC 33:III.509. As such, the PSD major source threshold is 100 TPY (of any regulated NSR pollutant).

Port Complex is now a regulated facility under Prevention of Significant Deterioration (PSD) program; the facility is currently a minor source of criteria pollutants and the current changes do not constitute a major modification.

PORT COMPLEX LOOP LLC GALLIANO, LAFOURCHE PARISH, LOUISIANA Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

X. ADDITIONAL MONITORING AND TESTING REQUIREMENTS

In addition to the monitoring and testing requirements set forth by applicable state and federal regulations (see Section VIII of this Statement of Basis), a number of "LAC 33:III.507.H.1.a" and/or "LAC 33:III.501.C.6" conditions may appear in the "Specific Requirements" section of the proposed permit. These conditions have been added where no applicable regulation exists or where an applicable regulation does not contain sufficient monitoring, recordkeeping, and/or reporting provisions to ensure compliance. LAC 33:III.507.H.1.a provisions, which may include recordkeeping requirements, are intended to fulfill Part 70 periodic monitoring obligations under 40 CFR 70.6(a)(3)(i)(B).

Port Complex requested an emission cap for operational flexibility. See Section XI.

XI. OPERATIONAL FLEXIBILITY

Emissions Caps

An emissions cap is a permitting mechanism to limit allowable emissions of two or more emissions units below their collective potential to emit (PTE). The proposed permit does have existing emissions caps.

Port Complex shall comply with the emission limits for the emission cap (Equipment Group) TANK CAP (GRP003) associated with the proposed permit.

Port Complex is required to monitor and keep records of the emissions for each equipment based on the relevant parameters every month and for the last twelve consecutive months to show compliance with the emission limits in the proposed permit. The specific conditions can be found in the "Specific Requirements" of the proposed permit.

Alternative Operating Scenarios

LAC 33:III.507.G.5 allows the owner or operator to operate under any operating scenario incorporated in the permit. Any reasonably anticipated alternative operating scenarios may be identified by the owner or operator through a permit application and included in the permit. The proposed permit does not include an alternative operating scenario.

Streamlined Requirements

When applicable requirements overlap or conflict, the permitting authority may choose to include in the permit the requirement that is determined to be most stringent or protective as detailed in EPA's "White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program" (March 5, 1996). The overall objective is to determine the set of permit terms and conditions that will assure compliance with all applicable requirements for an emissions unit or group of emissions units so as to eliminate

PORT COMPLEX LOOP LLC

GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

redundant or conflicting requirements. The proposed permit does not contain streamlined provisions.

Louisiana Consolidated Fugitive Emission Program (LCFEP)

Port Complex does not comply with a streamlined equipment leak monitoring program.

XII. PERMIT SHIELD

A permit shield, as described in 40 CFR 70.6(f) and LAC 33:III.507.I, provides an "enforcement shield" which protects the facility from enforcement action for violations of applicable federal requirements. It is intended to protect the facility from liability for violations if the permit does not accurately reflect an applicable federal or federally enforceable requirement.

The proposed permit does not establish a permit shield.

XIII. IMPACTS ON AMBIENT AIR

Emissions associated with the proposed modification were reviewed by the Air Permits Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

XIV. COMPLIANCE HISTORY AND CONSENT DECREES

The Port Complex's compliance history can be found in Section 15.a of the permit application. It must be disclosed per LAC 33:III.517.E and 517.D.12, if applicable.

No federal or state actions have been issued since the existing permit for the Port Complex was issued and does not operate under a consent decree

XV. REQUIREMENTS THAT HAVE BEEN SATISFIED

The following state and/or federal obligations have been satisfied and are therefore not included as Specific Requirements.

Source ID Citation Description

NA

PORT COMPLEX LOOP LLC GALLIANO, LAFOURCHE PARISH, LOUISIANA Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

XVI. OTHER REQUIREMENTS

Executive Order No. BJ 2008-7 directs all state agencies to administer their regulatory practices, programs, contracts, grants, and all other functions vested in them in a manner consistent with Louisiana's Comprehensive Master Plan for a Sustainable Coast and public interest to the maximum extent possible. If a proposed facility or modification is located in the Coastal Zone, LDEQ requires the applicant to document whether or not a Coastal Use Permit is required, and if so, whether it has been obtained. Coastal Use Permits are issued by the Coastal Management Division of the Louisiana Department of Natural Resources (LDNR).

The facility is located in the Coastal Zone; however, a Coastal Use Permit is not required.

XVII. PUBLIC NOTICE/PUBLIC PARTICIPATION

Written comments, written requests for a public hearing, or written requests for notification of the final decision regarding this permit action may be submitted to:

LDEQ, Public Participation Group P.O. Box 4313 Baton Rouge, Louisiana 70821-4313

Written comments and/or written requests must be received prior to the deadline specified in the public notice. If LDEQ finds a significant degree of public interest, a public hearing will be held. All comments will be considered prior to a final permit decision.

LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed permit, and this Statement of Basis are available for review at LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, Louisiana. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be viewed at the local library identified in the public notice. The available information can also be accessed electronically via LDEQ's Electronic Document Management System (EDMS) on LDEQ's public website. www.deq.louisiana.gov.

Inquiries or requests for additional information regarding this permit action should be directed to the contact identified on page 1 of this Statement of Basis.

Persons wishing to be included on the public notice mailing list or for other public participation-related questions should contact LDEQ's Public Participation Group at P.O. Box 4313. Baton Rouge, LA 70821-4313; by e-mail at maillistrequest@ldeq.org; or contact LDEQ's Customer Service Center at (225) 219-LDEQ (219-5337). Alternatively, individuals may elect to receive public notices via e-mail by subscribing to LDEQ's

PORT COMPLEX LOOP LLC GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

Public Notification List Service at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

Permit public notices can be viewed at LDEQ's "Public Notices" webpage, http://www.deq.louisiana.gov/apps/pubNotice/default.asp. Electronic access to each proposed permit and Statement of Basis current on notice is also available on this page. General information related to public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

PORT COMPLEX LOOP LLC

GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

APPENDIX A - ACRONYMS

AAS	Ambient Air Standard (LAC 33:III.Chapter 51)
AP-42	EPA document number of the Compilation of Air Pollutant Emission Factors
BACT	Best Available Control Technology
BTU	British Thermal Units
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CAM	Compliance Assurance Monitoring, 40 CFR 64
CEMS	Continuous Emission Monitoring System
CMS	Continuous Monitoring System
CO	Carbon monoxide
COMS	Continuous Opacity Monitoring System
CFR	Code of Federal Regulations
EI	Emissions Inventory (LAC 33:III.919)
EPA	(United States) Environmental Protection Agency
EIQ	Emission Inventory Questionnaire
ERC	Emission Reduction Credit
FR	Federal Register or Fixed Roof
H_2S	Hydrogen sulfide
H_2SO_4	Sulfuric acid
HAP	Hazardous Air Pollutants
Hg	Mercury
HON	Hazardous Organic NESHAP
IBR	Incorporation by Reference
LAER	Lowest Achievable Emission Rate
LDEQ	Louisiana Department of Environmental Quality
M	Thousand
MM	Million
MACT	Maximum Achievable Control Technology
MEK	Methyl ethyl ketone
MIK	Methyl isobutyl ketone
MSDS	Material Safety Data Sheet
MTBE	Methyl tert-butyl ether
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industrial Classification System (replacement to SICC)

National Emission Standards for Hazardous Air Pollutants

Non-Methane Organic Compounds

NESHAP

NMOC

PORT COMPLEX LOOP LLC

GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

APPENDIX A - ACRONYMS

NOx	Nitrogen Oxides
NNSR	Nonattainment New Source Review
NSPS	New Source Performance Standards
NSR	New Source Review
OEA	LDEQ Office of Environmental Assessment
OEC	LDEQ Office of Environmental Compliance
OES	LDEQ Office of Environmental Services
PM	Particulate Matter
PM10	Particulate Matter less than 10 microns in nominal diameter
PM2.5	Particulate Matter less than 2.5 microns in nominal diameter
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RBLC	RACT-BACT-LAER Clearinghouse
RMP	Risk Management Plan (40 CFR 68)
SICC	Standard Industrial Classification Code
SIP	State Implementation Plan
SO2	Sulfur Dioxide
SOCMI	Synthetic Organic Chemical Manufacturing Industry
TAP	Toxic Air Pollutants (LAC 33:III.Chapter 51)
TOC	Total Organic Compounds
TPY	Tons Per Year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate
μg/m3	Micrograms per Cubic Meter
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound
VOL	Volatile Organic Liquid
17711	TI D. TI.

Vapor Recovery Unit

VRU

PORT COMPLEX LOOP LLC GALLIANO, LAFOURCHE PARISH, LOUISIANA Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

APPENDIX B – GLOSSARY

Best Available Control Technologies (BACT) — an emissions limitation (including a visible emission standard) based on the maximum degree of reduction for each pollutant subject to regulation under this Part (Part III) which would be emitted from any proposed major stationary source or major modification which the administrative authority, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant.

CAM - Compliance Assurance Monitoring - A federal air regulation under 40 CFR Part 64.

Carbon Monoxide (CO) – (Carbon monoxide) a colorless, odorless gas produced by incomplete combustion of any carbonaceous (gasoline, natural gas, coal, oil, etc.) material.

Cooling Tower - A cooling system used in industry to cool hot water (by partial evaporation) before reusing it as a coolant.

Continuous Emission Monitoring System (CEMS) – The total combined equipment and systems required to continuously determine air contaminants and diluent gas concentrations and/or mass emission rate of a source effluent.

Cyclone - A control device that uses centrifugal force to separate particulate matter from the carrier gas stream.

Federally Enforceable Specific Condition – A federally enforceable specific condition written to limit the potential to Emit (PTE) of a source that is permanent, quantifiable, and practically enforceable. In order to meet these requirements, the draft permit containing the federally enforceable specific condition must be placed on public notice and include the following conditions:

- A clear statement of the operational limitation or condition which limits the source's potential to emit;
- Recordkeeping requirements related to the operational limitation or condition;
- A requirement that these records be made available for inspection by LDEO personnel;
- A requirement to report for the previous calendar year.

Grandfathered Status – those facilities that were under actual construction or operation as of June 19, 1969, the signature date of the original Clean Air Act. These facilities are not required to obtain a permit. Facilities that are subject to Part 70 (Title V) requirements lose grandfathered status and must apply for a permit.

PORT COMPLEX LOOP LLC

GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

APPENDIX B – GLOSSARY

Lowest Achievable Emission Rate (LAER) - for any source, the more stringent rate of emissions based on the following:

- a. the most stringent emissions limitation that is contained in the implementation plan of any state for such class or category of major stationary source, unless the owner or operator of the proposed stationary source demonstrates that such limitations are not achievable; or
- b. the most stringent emissions limitation that is achieved in practice by such class or category of stationary source. This limitation, when applied to a modification, means the lowest achievable emissions rate for the new or modified emissions units within the stationary source. In no event shall the application of this term permit a proposed new or modified major stationary source to emit any pollutant in excess of the amount allowable under an applicable new source standard of performance.

NESHAP - National Emission Standards for Hazardous Air Pollutants - Air emission standards for specific types of facilities, as outlined in 40 CFR Parts 61 through 63.

Maximum Achievable Control Technology (MACT) — the maximum degree of reduction in emissions of each air pollutant subject to LAC 33:III. Chapter 51 (including a prohibition on such emissions, where achievable) that the administrative authority, upon review of submitted MACT compliance plans and other relevant information and taking into consideration the cost of achieving such emission reduction, as well as any non-air-quality health and environmental impacts and energy requirements, determines is achievable through application of measures, processes, methods, systems, or techniques.

NSPS - New Source Performance Standards - Air emission standards for specific types of facilities, as outlined in 40 CFR Part 60.

New Source Review (NSR) – a preconstruction review and permitting program applicable to new or modified major stationary sources of criteria air pollutants regulated under the Clean Air Act (CAA). NSR is required by Parts C ("Prevention of Significant Deterioration of Air Quality") and D ("Nonattainment New Source Review").

Nonattainment New Source Review (NNSR) – a New Source Review permitting program for major sources in geographic areas that do not meet the National Ambient Air Quality Standards (NAAQS) set forth at 40 CFR Part 50. NNSR is designed to ensure that emissions associated with new or modified sources will be regulated with the goal of improving ambient air quality.

Organic Compound – any compound of carbon and another element. Examples: methane (CH_4), ethane (C_2H_6), carbon disulfide (CS_2).

Part 70 Operating Permit – also referred to as a Title V permit, required for major sources as defined in 40 CFR 70 and LAC 33:III.507.

PORT COMPLEX LOOP LLC GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634 Activity No. PER20100001 Proposed Permit No. 1560-00027-V0

APPENDIX B - GLOSSARY

 PM_{I0} —particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers as measured by the method in Title 40, Code of Federal Regulations, Part 50, Appendix J.

Potential to Emit (PTE) – the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design.

Prevention of Significant Deterioration (PSD) – a New Source Review permitting program for major sources in geographic areas that meet the National Ambient Air Quality Standards (NAAQS) at 40 CFR Part 50. PSD requirements are designed to ensure that the air quality in attainment areas will not degrade.

Selective Catalytic Reduction (SCR) – A non-combustion control technology that destroys NO_X by injecting a reducing agent (e.g., ammonia) into the flue gas that, in the presence of a catalyst (e.g., vanadium, titanium, or zeolite), converts NO_X into molecular nitrogen and water.

Sulfur Dioxide (SO₂) - An oxide of sulphur.

TAP - LDEQ acronym for toxic air pollutants regulated under LAC 33 Part III, Chapter 51. Tables 1 through 3.

"Top Down" Approach – An approach which requires use of the most stringent control technology found to be technically feasible and appropriate based on environmental, energy, economic, and cost impacts.

Title V permit – see Part 70 Operating Permit.

Volatile Organic Compound (VOC) – any organic compound which participates in atmospheric photochemical reactions; that is, any organic compound other than those which the Administrator of the U.S. Environmental Protection Agency designates as having negligible photochemical reactivity.

Worksheet for Technical Review of Working Draft of Proposed Permit

Compony				Pormit No.	1550 0007 1/0
Company				I CI IIII I I O	0 4 - / 7000-0001
Name:	LOOP LLC	AI #:	4634	TEMPO Activity No: PER20100001	PER20100001
Facility	Port Complex	Remarks	Tracy Fazio	Tracy Fazio, C-K Associates, LLC	
Name:		Submitted by:	· !		
Permit	Syed Quadri	Permit Writer			
Writer:		Email address: Syed.quadri@la.gov	Syed.quadr	i@la.gov	

Instructions

Permit Reference - Indicate specific portion(s) of the permit to which the remark relates (i.e. "Specific Condition 120", or "Section II Air Permits Briefing Sheet", etc.).

Remarks – Explain the basis for each remark. Provide regulatory citations where possible. If the remark is made due to an error or omission in the permit application this must be noted and the revised information must be submitted. Revised information may be submitted separately from this worksheet. Please be aware that revised information must be submitted in writing and certified by the Responsible Official, and if necessary, by a Professional Engineer licensed in Louisiana. Please Note: New or additional equipment, processes or operating conditions not addressed in the original permit application will be addressed on a case-by-case basis. The Department reserves the right to address such changes in a separate permit action.

DEQ Response - DO NOT COMPLETE THIS SECTION. This section will be completed by Air Permits Division of DEQ, included in the proposed permit package and made available for public review during any required public comment period.

- Additional rows may be added as necessary.
- Completed Form shall be emailed to the Permit writer in MS Word compatible format within the deadline specified in the email notification.

Air Permits Division Response (for official use only)								
Remarks								
Permit Reference	No comments							

Syed Quadri

From:

Tracy Fazio [tracy fazio@c-ka.com]

Sent:

Wednesday, January 26, 2011 10:53 AM

To:

Syed Quadri

Subject:

ZZZZ - LOOP existing CI emergency engines

Attachments:

http frwebgate2.access.gpo.gov_cgi-bin_PDFgate.pdf

Syed -

Attached is the final rule, with preamble, for ZZZZ revisions that pull in existing CI engines at Area Sources. On page 9654, first column, #2, 1st paragraph, the summary of rule states that existing RICE subject to management practices do not have to conduct performance tests.

Additionally, page 9652, 3rd column, #2 provides that numerical standards are applied to non-emergency engines.

Hopefully this gives you the level of comfort you need to be OK with the requirements you wrote in the draft permit. I initially highlighted text in the attached and tried to scan it in color to send to you for easy review, but the file is too large for me email so I had to just explain where to see the language.

Tracy

Tracy Fazio, PE
Air Quality Team
C-K Associates, LLC
Baton Rouge, LA

Phone: 225.755.1011 ext 1804

Fax: 225.612.3103 www.c-ka.com



State of Louisiana

DEC 3 0 2010

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

CERTIFIED MAIL 7007 0710 0005 4137 2101

Agency Interest No. 4634 Permit No. 1560-00027-V0 Activity No. PER20100001

Ms. CaSandra J. Cooper-Gates LOOP LLC 137 Northpark Dr. Covington, LA 70433-5071

RE: Port Complex Application

Administrative Completeness Determination and Public Notice for Publication

Dear Ms. Cooper-Gates:

The Office of Environmental Services received your application for an initial Title V air permit on December 23, 2010. As of the date of this letter, the application, along with any additional information submitted to date, has been determined to be administratively complete and has been assigned to the Petrochemical Section, Group 3. Please note that the Department may require additional information if technical deficiencies are found at a later date.

Pursuant to LAC 33: I.1505.A.5, within 30 days after receipt of this letter of administrative completeness, the applicant shall publish a notice, provided by the Department, of the completeness determination in a major local newspaper of general circulation and submit proof of publication to the Department. Please publish the enclosed public notice once in *The Lafourche Gazette*. The proof of publication should be mailed to Kaylee Fontenot at this Office.

In addition, Section 2018 of the Environmental Quality Act requires certain permit applications to contain an environmental assessment statement (I.T. questions). "Simultaneously with the submission of the statement to the department, the applicant must also submit copies of the statement to the local governmental authority and designated public library where the facility is located, at no cost to the local governmental authority or the designated public library."

Within 30 days from the date of this letter, please provide confirmation for our records to indicate that this required task has been accomplished for the application you submitted on December 23, 2010. Included in the confirmation must be the date the statement was mailed or delivered, the name of the entity to which the statement was mailed or delivered, and affirmation that the statement that was mailed or delivered is the same as the statement that was submitted to the department as part of the permit application.

If you have any questions, please call me at (225) 219-3285.

Sincerely,

Kaylee Fontenot

Kaylee Tonterol

Environmental Project Specialist

Permit Application Administrative Review Group

Enclosure

c: IO-A

PUBLIC NOTICE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ) LOOP LLC Port Complex ADMINISTRATIVE COMPLETENESS DETERMINATION

The LDEQ, Office of Environmental Services, has reviewed an initial Title V air permit application from LOOP LLC, 137 Northpark Dr., Covington, LA 70433-5071 for the Port Complex and determined that it is administratively complete. The application was received on December 23, 2010. The facility is located near Galliano, Lafourche Parish.

LOOP LLC - Port Complex proposes to obtain a Title V air permit.

Inquiries or requests for additional information regarding the administrative completeness review of this application should be directed to Kaylee Fontenot, LDEQ, Environmental Assistance Division, P. O. Box 4313, Baton Rouge, LA 70821-4313 or at 225-219-3285.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices can be viewed at the LDEQ permits public notice webpage at http://www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq pn listserv.htm.

All correspondence should specify Al Number 4634, Permit Number 1560-00027-V0, and Activity Number PER20100001.

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copy to Petro 163/Davies

137 Northpark Blvd. • Covington, LA 70433 TELEPHONE (985) 276-6100 • FAX (985) 276-6284

January 27, 2011

VIA FEDEX

Ms. Kaylee Fontenot
Environmental Project Specialist
Louisiana Department of Environmental Quality
Permit Application Administrative Review Group
Post Office Box 4313
Baton Rouge, LA 70821-4313

Re:

LOOP LLC

Agency Interest No. 4634 Permit No. 1560-00027-V0 Activity No. PER20100001

Dear Ms. Fontenot:

Attached are copies of the letters sent to the Lafourche Parish Council and the Lafourche Parish Public Library transmitting the Environmental Assessment Statement as required in your letter dated December 30, 2010. Also attached are copies of the FEDEX waybills transmitting these documents.

As indicated in the Environmental Assessment Statement, the information in that document was included in LOOP LLC's application for initial Title V air permit submitted to the Louisiana Department of Environmental Quality on December 23, 2010.

If you have any questions or need any further information please do not hesitate to contact me at (985) 276-6299 or via email at cgleblanc@loopllc.com.

Sincerely,

Cynthia A. Gardner-LeBlanc

Senior Regulatory Representative

Enclosures



137 Northpark Blvd. • Covington, LA 70433 TELEPHONE (985) 276-6100 • FAX (985) 276-6284

January 27, 2011

VIA FEDEX

Ms. Charlotte Randolph Parish President Lafourche Parish Council 402 Green Street Thibodaux, LA 70301

Re: LOOP LLC Environmental Assessment Statement

Dear Ms. Randolph:

LOOP LLC is submitting the enclosed Environmental Assessment Statement to the Lafourche Parish Council as required by the Louisiana Department of Environmental Quality. The submittal is in conjunction with a permit request to the Louisiana Department of Environmental Quality for an initial Title V air permit and in accordance with requirements found at La. R.S. 30:2018. A copy of this statement has also been forwarded to the Lafourche Parish Public Library.

Should you have any questions, please contact me at (985) 276-6299.

Sincerely,

Cynthia A. Gardner-LeBlanc

Senior Regulatory Representative

Cynthia a. Daren LeBlum

Enclosure

cc: Kaylee Fontenot, Louisiana Department of Environmental Quality

Environmental Assessment Statement

In accordance with La. R.S. 30:2018, the following Environmental Assessment Statement has been prepared and is being submitted to the local governmental authority (the Lafourche Parish Council) and the local public library. This information was also provided to the Louisiana Department of Environmental Quality in LOOP's application for an initial Title V air permit submitted to the agency on December 23, 2010.

1. Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible?

Yes. The LOOP LLC Port Complex currently operates under Permit No. 1560-00027-03 and is requesting permitting under a Louisiana Part 70 Operating Permit with this application. This application includes the addition of six crude oil storage tanks, to be permitted under the existing crude oil storage tank CAP, and the addition of one emergency diesel generator.

The potential and real adverse environmental effects of the proposed project have been avoided to the maximum extent possible. As discussed below, the facility is not anticipated to have any adverse environmental impacts.

The potential impacts from air emissions from the facility are minimal and will not cause any adverse impacts. All applicable federal and state regulations are complied within a timely manner and are utilized to minimize air emissions.

2. Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former?

Yes. The social and economic benefits of the LOOP Complex greatly outweigh its environmental impact. The facility is subject to strict requirements to control air emissions. Controls are in place to prevent any other environmental media from being affected by the facility's operations. The LOOP Complex is not anticipated to have an adverse impact on the environment. The facility has significant social and economic benefits, on a local and national scale, with minimal environmental impact.

3. Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits?

The proposed project is planned for the existing LOOP Complex. There are no alternative projects (i.e., technologies) which would offer more protection to the environment than the proposed project without unduly curtailing non-environmental benefits.

4. Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits?

No, it is an existing facility which is zoned for industrial use. Any other site would not offer more protection to the environment than the proposed project site without unduly curtailing non-environmental benefits.

5. Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing non-environmental benefits?

No, there are no mitigating measures which would offer more protection to the environment than the project as proposed without unduly curtailing non-environmental benefits. The facility meets all state and federally applicable requirements to minimize emissions of regulated air pollutants. Emissions associated with operations at the facility have been minimized.

From: (985) 276-6299 Cynthia Gardner-LeBlanc LÓOPLLC 137 Northpark Blvd.

Covington, LA 70433

Origin (D: BXAA

CAD: 4893232/INET3130 Delivery Address Bar Code

Ship Date: 27JAN11

ActWgt: 0.3 LB

SHIP TO: (985) 446-8427

Ms. Charlotte Randolph **Parish President 402 GREEN ST** LAFOURCHE PARISH COUNCIL THIBODAUX, LA 70301

311101012220225 **BILL SENDER**

Ref# Invoice A P0# Dept #

> FRI - 28 JAN A5 PRIORITY OVERNIGHT

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excass of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss Maximum for items of extraordinary value is \$500, e.g. jewetry, precious metels, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide



137 Northpark Blvd. • Covington, LA 70433 TELEPHONE (985) 276-6100 • FAX (985) 276-6284

January 27, 2011

VIA FEDEX

Ms. Susanna LeBouef
Director
Lafourche Parish Public Library
South Lafourche Branch
16241 East Main
Cut Off, LA 70345-3805

Re: LOOP LLC Environmental Assessment Statement

Dear Ms. LeBouef:

In accordance with my conversation with Ms. Tammy Blanchard, attached is a copy of the Environmental Assessment Statement LOOP LLC is required by the Louisiana Department of Environmental Quality to submit to the Lafourche Parish Public Library. The submittal is in conjunction with a permit request to the Louisiana Department of Environmental Quality for an initial Title V air permit and in accordance with requirements found at La. R.S. 30:2018. A copy of this statement has also been forwarded to the Lafourche Parish Council.

Should you have any questions, please contact me at (985) 276-6299.

Sincerely,

Cynthia A. Gardner-LeBlanc Senior Regulatory Representative

Conthin a Sarandaple

Enclosure

cc: Kaylee Fontenot, Louisiana Department of Environmental Quality

Environmental Assessment Statement

In accordance with La. R.S. 30:2018, the following Environmental Assessment Statement has been prepared and is being submitted to the local governmental authority (the Lafourche Parish Council) and the local public library. This information was also provided to the Louisiana Department of Environmental Quality in LOOP's application for an initial Title V air permit submitted to the agency on December 23, 2010.

1. Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible?

Yes. The LOOP LLC Port Complex currently operates under Permit No. 1560-00027-03 and is requesting permitting under a Louisiana Part 70 Operating Permit with this application. This application includes the addition of six crude oil storage tanks, to be permitted under the existing crude oil storage tank CAP, and the addition of one emergency diesel generator.

The potential and real adverse environmental effects of the proposed project have been avoided to the maximum extent possible. As discussed below, the facility is not anticipated to have any adverse environmental impacts.

The potential impacts from air emissions from the facility are minimal and will not cause any adverse impacts. All applicable federal and state regulations are complied within a timely manner and are utilized to minimize air emissions.

2. Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former?

Yes. The social and economic benefits of the LOOP Complex greatly outweigh its environmental impact. The facility is subject to strict requirements to control air emissions. Controls are in place to prevent any other environmental media from being affected by the facility's operations. The LOOP Complex is not anticipated to have an adverse impact on the environment. The facility has significant social and economic benefits, on a local and national scale, with minimal environmental impact.

3. Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits?

The proposed project is planned for the existing LOOP Complex. There are no alternative projects (i.e., technologies) which would offer more protection to the environment than the proposed project without unduly curtailing non-environmental benefits.

4. Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits?

No, it is an existing facility which is zoned for industrial use. Any other site would not offer more protection to the environment than the proposed project site without unduly curtailing non-environmental benefits.

5. Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing non-environmental benefits?

No, there are no mitigating measures which would offer more protection to the environment than the project as proposed without unduly curtailing non-environmental benefits. The facility meets all state and federally applicable requirements to minimize emissions of regulated air pollutants. Emissions associated with operations at the facility have been minimized.

From: (985) 276-6299 Cynthia Gardner-LeBianc LOOPLLC 137 Northpark Blvd.

Covington, LA 70433

Origin ID: BXAA



J11101012220225

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Syed Quadri

From: Jennifer Tullier [Jennifer.Tullier@c-ka.com]

Sent: Friday, January 07, 2011 3:26 PM

To: Syed Quadri Cc: Tracy Fazio

Subject: RE: AI # 4634: Air Permit Application (40 CFR 63 ZZZZ)

Syed,

The following citations are regarding applicability of Subpart ZZZZ, related to existing engines (EQT009 through EQT015 and EQT018 through EQT026). While we understand that these citations apply and they were used to determine the Subpart is applicable, we did not include them in Table 2 since they did not fit into the Emissions/Operating Limitations, Monitoring Requirements, Recordkeeping Requirements, Reporting Requirements, or Performance Testing Requirements.

6580 6585(c) 6590(a)(1)(iii) – before June 12, 2006 6595(a)(1) – by October 19, 2013

Citation 6603 with regard to Table 2b: Table 2b does not apply as the facility is not a major source of HAP emissions. Citation 6603 with regard to Table 2d: Table 2d, Item No. 4 (Emergency CI) does apply to the existing emergency engines.

Citation 6605(a) and (b): okay to include

Citation 6612(a) and (b): Table 4 and Table 5 do not apply as there are no numerical limits established for existing emergency generators at area source HAP emissions.

Citation 6625(e)(2) and (f): okay to include 6625(e) and 6625(f).

Citation 6630 regarding 6630(a) with regard to Table 5: Table 5 of this subpart does not identify emission or operating limits applicable to existing emergency generators at an area source of HAP emissions. 6630(b) with regard to Table 1b and Table 2b does not identify initial performance test as these table are applicable to major sources of HAP emissions. 6630(c) does not apply as it details "Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements of 63.6645." The existing emergency engines are not applicable to 63.6645 based on the citation in 6645(a)(5).

Citation 6635: The context of this section applies to monitoring systems. Existing CI engines at area sources are not required to install monitoring equipment.

Citation 6640(f) is already cited in the Permit Application, Table 2 as applicable (page 4 of 16).

Citation 6645: This citation does not apply based on 6645(a)(5): "This requirement does not apply if you own or operate an existing stationary CI RICE less than 100 HP, and existing stationary emergency CI RICE, or an existing stationary CI RICE that is not subject to any numerical emission standards.

Citation 6650: Okay to add 40 CFR 63.6650(a)-(d) and (f)

Citation 6655(e) is already cited in the Permit Application, Table 2 as applicable (page 5 of 16)

Citation 6660 is already cited in the Permit Application, Table 2 as applicable (page 5 of 16)

Citation 6665: Okay to add

Please let us know if there are any other questions.

Jennifer Tullier

C-K Associates, LLC 17170 Perkins Road Baton Rouge, LA 70810 jennifer.tullier@c-ka.com Main: 225.755.1000 Fax: 225.751.2010

From: Syed Quadri [mailto:Syed.Quadri@LA.GOV]

Sent: Friday, January 07, 2011 10:10 AM

To: Jennifer Tullier **Cc:** Tracy Fazio

Subject: RE: AI # 4634: Air Permit Application (40 CFR 63 ZZZZ)

Jennifer: Here is my list of all the citations potentially applicable to the engines. If any citation does not apply give me a reason why not.

6580 6585(c)

6590(a)(1)(iii) – before June 12, 2006 6595(a)(1) – by October 19, 2013

6603 - table 2d and 2b (need item numbers)

6605(a) and (b)

6612(a) and (b) - no testing if already done as per the requirement protocol

6625(e)(2) and (f)

6630

6635

6640(f)

6645

6650

6655(e)

6660 and

6665

Thanx,

Syed

From: Jennifer Tullier [mailto:Jennifer.Tullier@c-ka.com]

Sent: Thursday, January 06, 2011 4:20 PM

To: Syed Quadri **Cc:** Tracy Fazio

Subject: AI # 4634: Air Permit Application (40 CFR 63 ZZZZ)

Syed,

Existing emergency engines located at the LOOP, LLC – Port Complex (an area source of HAP emissions) are subject to the following 40 CFR 63 Subpart ZZZZ requirements: 40 CFR 63.6640(f) [Operating Limitations], 40 CFR 63.6655(f)(2) [Monitoring and Recordkeeping requirements], 40 CFR 63.6655(e) [Recordkeeping], and 40 CFR 63.6660 [Recordkeeping]. Existing (emergency) internal combustion engines include EQT009 through EQT015 and EQT018 through EQT026. The proposed new emergency generator (Emission Point 1-10) complies with 40 CFR 63 Subpart ZZZZ (40 CFR 63.6590(c)) by complying with 40 CFR 60 IIII. The requirements of 40 CFR 63 Subpart ZZZZ for all engines, existing and proposed, are detailed in Table 2 of the permit application.

If there are any additional questions please let Tracy or myself know.

Thanks.

Jennifer Tullier

C-K Associates, LLC 17170 Perkins Road Baton Rouge, LA 70810 jennifer.tullier@c-ka.com Main: 225.755.1000

Main: 225.755.1000 Fax: 225.751.2010



CONSULTANTS



LDER PEREIDT

17170 PERKINS ROAD BATON ROUGE, LA 70810 PH (225) 755-1000 FAX (225) 751-2010 http://www.c-ka.com

2010 DEC 23 AM 10: 42

REGIONAL OFFICES

HOUSTON, TX PH (281) 397-9016 FAX (281) 397-6637

original to

SHREVEPORT, LA PH (318) 797-8636 FAX (318) 798-0478

LAKE CHARLES, LA PH (337) 439-8699 FAX (337) 439-3337

HAND DELIVERED

December 23, 2010

Louisiana Department of Environmental Quality Office of Environmental Services Permits Division 602 N. Fifth St. Baton Rouge, Louisiana 70802

Re:

Title V Air Permit Application Permit No. 1560-00027-03

LOOP LLC - LOOP LLC Port Complex

Lafourche Parish, Louisiana Agency Interest No. 4634

PER2010 0001

Dear Permits Division:

On behalf of LOOP LLC, C-K Associates, LLC submits, in triplicate, the Title V air permit application for Permit No. 1560-00027-03.

If you have any questions or require additional information, please contact me at (225)-755-1000.

Sincerely,

C-K Associates, LLC

Mark Air Quality Manager

DEC 2 3 2010

LDEG

RECEIPT OF CHECK

Master Al #:

4634

Name on Check:

LOOP LLC

Master File Name:

LOOP LLC - Port Complex

Check Received Date: 12/23/2010

Check Date:

12/17/2010

Check Number:

595707

Check Amount (\$):

\$6,286.25

Staff Entry:

DFERRAND

Date data entered:

12/23/2010

Media:

AIR

Reason:

title V permit app

Comments:

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF ENVIRONMENTAL SERVICES

TITLE V/PART 70 AIR PERMIT APPLICATION

FOR

LOOP LLC Port Complex LOOP LLC Galliano/Leeville, Louisiana Lafourche Parish

December 2010

Prepared By: C-K Associates, LLC 17170 Perkins Road Baton Rouge, LA 70810 (225) 755-1000

C-K Associates' Project No. 5510A

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SECTION 1.0 INTRODUCTION

1.0 INTRODUCTION

This Application for Approval of Emissions (AAE) and Emissions Inventory Questionnaire (EIQ) are being submitted by LOOP LLC (LOOP) for modification of the existing Clovelly Dome Storage Terminal in Lafourche Parish, Louisiana. The facility is under the LOOP LLC Port Complex, which includes a Marine Offloading Terminal, a crude oil pipeline interim storage facility.

The LOOP LLC Port Complex is a minor source of Criteria and LAC 33:III Chapter 51 Toxic Air Pollutants. The facility currently operates under State Permit No. 1560-00027-03 issued June 12, 2007. A copy of the current permit can be found in Appendix A. With this modification application, LOOP is requesting a Title V permit for the LOOP LLC Port Complex.

This application was prepared in accordance with LAC 33:III Chapter 5. The application Completeness Checklist for Part 70 Operating Permits is included as Appendix B. As required under LA R.S. 30:2018, the Environmental Assessment Statement is included as Appendix C.

1.1 FACILITY DESCRIPTION

LOOP LLC Port Complex (LOOP Complex) is located in Lafourche Parish, Louisiana and the Gulf of Mexico. The LOOP Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leeville, the Fourchon Booster Station in Leeville, and Marine Offloading Terminal in Grand Isle Block 59, Gulf of Mexico. Figure 1 depicts the site locations of the three land based facilities relative to each other.

The LOOP Complex is currently permitted for a capacity of 59.4 million barrels (MMbbls) of crude oil storage, including caverns and tanks. The Clovelly Dome Storage Terminal consists of nine underground storage caverns. These caverns provide storage for oil prior to pipeline delivery. Eight of the caverns have a capacity of approximately 6 MM barrels of oil, and one cavern has a capacity of 3 MM barrels of oil. The Terminal also consists of surface facilities located in the same general vicinity which include a Brine Storage Reservoir, Operations Building, crude oil storage tanks, fuel and slop oil tanks, emergency generators, and ancillary equipment. The Small Boat Harbor, located on Bayou Lafourche, shelters crew and work boats and includes hose testing facilities. The Fourchon Booster Station is a secured unmanned facility with two large diesel storage tanks and a few small storage tanks. Emission control systems utilized at the LOOP Complex facilities include the latest storage tank technology, mechanical seals on pumps, and low sulfur fuel oil.

1.2 PROJECT DESCRIPTION

LOOP proposes to expand its Clovelly Dome Storage Terminal to include six (6) additional storage tanks and one new emergency diesel generator. The new tanks will be modeled after the existing tanks, each being an external floating roof tank and having a diameter of 310 feet. Refer to Figure 2 Plot Plan for the location of new tanks. The capacity of each of the new tanks will be 600,000 barrels. Additional capacity is 3.6 MMbbls for a total of 63 MMbbls.

Currently, the permitted throughput for the existing crude oil tank cap is 230 MMbbl/year. The emissions cap consists of both operating emissions and roof landing emissions. This cap allows LOOP to operate the storage tanks with the flexibility to increase throughput through any one tank to meet scheduling and production needs. The cap also allows for

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roof landings to occur when necessary. This application presents a theoretical operating scenario of one roof landing per tank per year. Should one tank need to be landed more than once in a year or not at all, the throughput for any tank can be adjusted, accordingly.

LOOP is proposing to add six new tanks under the crude oil storage tank cap. The operating scenario presented in this application provides a total facility throughput of approximately 183 million barrels of crude oil per year. This scenario is presented as an example only. LOOP requests that the permit not contain any explicit throughput limits or limits on frequency of roof landings and that the cap limit be based on emissions not throughput. LOOP has the flexibility to vary these parameters as operational requirements dictate under the constraints of the permit limit for the cap.

In preparation of this permit application, existing permitted emission sources were evaluated for operational parameters, emission calculation methodology, and speciation profile in addition to proposed sources. All source calculations are provided in Appendix D.

Provided below is an overview of the changes proposed in this application:

- The addition of six new crude oil storage tanks;
- The addition of one new emergency generator engine;
- Additionally landing losses for crude oil storage tanks;
- Revised fugitive emissions;
- Revised crude oil RVP from 5 to 8:
- Revised landing loss calculations based on RVP 8;
- Reconciled tank fittings to as-built;
- Delete EQT005 turbine generator and EQT010 fire pump engine;
- Reconciled engines per field verification, including an updated source description.
 Emissions based on appropriate AP-42 chapter, according to size; and
- Updated the Insignificant Activities list.

1.3 EMISSION SOURCES AND CALCULATION METHODOLOGY

Emission sources included in this permit application include the salt dome caverns and brine storage reservoir, storage tanks, fuel tanks, pump and generator engines, and fugitive emissions.

Calculation methodology follows the latest EPA TANKS Program Version 4.0.9d, Water9 Program software, and AP-42 Emission Factors. Roof landing losses are calculated based on guidance from AP-42 Chapter 7.1 Organic Liquid Storage Tanks and API Technical Report 2567, Evaporative Loss from Storage Tank Floating Roof Landings. Emission calculations can be found in Appendix D, including detailed report printouts from TANKS 4.0.9d. Please note that VOCs toxics have been speciated in accordance with EPA's TANKS 4.0.9d, where appropriate.

LAC 33:III.501.B.5 Insignificant Activity List

In accordance with LAC 33:III.501.B.5, certain activities are approved by the permitting authority as insignificant on the basis of size, emission or production rate, or type of pollutant. As specified by LAC 33:III.517, where applicable, those activities listed in Part A of the Insignificant Activities List must be listed in the facility's permit. Below outlines the Insignificant Activities Based on Size or Emission Rate as it applies to the LOOP Complex.

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A-1 External combustion equipment with a design rate greater than or equal to 1 million Btu per hour, but less than or equal to 10 million Btu per hour, provided that the aggregate emissions from all such units listed as insignificant do not exceed five tons per year.

Not applicable to the LOOP Complex.

A-2 Storage tanks less than 250 gallons storing organic liquids having a true vapor pressure less than or equal to 3.5 psia, provided that the aggregate emissions from all such organic liquid storage tanks listed as insignificant do not exceed five tons per year, do not exceed any Minimum Emission Rate listed in LAC:33.III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established pursuant to Section 112(g) of the federal Clean Air Act.

LOOP LLC has identified three (3) storage tanks less than 250 gallons storing organic liquids having a true vapor pressure less than or equal to 3.5 psia. These tanks are presented in Appendix D, Insignificant Activities emission calculations. Aggregate emissions are well below five tons per year, do not exceed any MER, and do not exceed any HAP de minimis rate.

A-3 Storage tanks less than 10,000 gallons storing organic liquids having a true vapor pressure less than 0.5 psia, provided that the aggregate emissions from all such organic liquid storage tanks listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established pursuant to Section 112(g) of the federal Clean Air Act.

LOOP LLC has identified thirteen (13) storage tanks less than 10,000 gallons (inclusive of A-2 tanks) storing organic liquids having a true vapor pressure less than or equal to 0.5 psia. These tanks are presented in Appendix D, Insignificant Activities emission calculations. Aggregate emissions are well below five tons per year, do not exceed any MER, and do not exceed any HAP de minimis rate.

A-4 Emissions of any inorganic air pollutant that is not a regulated air pollutant as defined under LAC 33:III.502, provided that the aggregate emissions from all such pollutants listed as insignificant do not exceed five tons per year.

Not applicable to the LOOP Complex.

A-5 External combustion equipment with a design rate less than 1 million Btu per hour.

Not applicable to the LOOP Complex.

A-6 Emissions from laboratory equipment/vents used exclusively for routine chemical or physical analysis for quality control or environmental monitoring purposes, provided that the aggregate emissions from all such equipment vents considered insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

The LOOP Complex may engage in routine chemical or physical analysis for quality control or environmental monitoring purposes. Aggregate emissions will not exceed five tons per year, will not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and

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will not exceed any hazardous air pollutant de minimus rate established in accordance with Section 112(g) of the federal Clean Air Act.

A-7 Noncommercial water washing operations of empty drums less than or equal to 55 gallons with less than 3 percent of the maximum container volume of material.

The LOOP Complex may water wash empty containers less than or equal to 55 gallons containing less than three percent of the maximum container volume. These activities may occur at any time throughout the calendar year.

A-8 Portable fuel tanks used on a temporary basis in maintenance and construction activities, provided that the aggregate emissions from all such tanks listed as insignificant do not exceed five tons per year.

The LOOP Complex may use portable fuel tanks on a temporary basis for maintenance and construction activities. Aggregate emissions from all such tanks listed as insignificant will not exceed five tons per year.

A-9 Emissions from process stream or process vent analyzers, provided that the aggregate emissions from all such analyzers listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Not applicable to the LOOP Complex.

A-10 Storage tanks containing, exclusively, soaps, detergents, surfactants, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, molasses, corn syrup, aqueous salt solutions, or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials, the tanks are not subject to 40 CFR 60, Subpart Kb or other federal regulation, and the aggregate emissions from all such tanks listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Not applicable to the LOOP Complex.

A-11 Catalyst charging operations, provided all such operations listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Not applicable to the LOOP Complex.

A-12 Portable cooling towers used on a temporary basis in maintenance activities, provided that the aggregate emissions from all such cooling towers listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Not applicable to the LOOP Complex.

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1.4 REGULATORY APPLICABILITY

Provided herein, is a brief description of applicable state and federal air quality regulations for the LOOP Complex. For a comprehensive analysis, including monitoring, reporting, and recordkeeping requirements, please refer to Section 2.0 Regulatory Tables 1-4 in form item number 23.

Louisiana Administrative Code

Chapter 5 Permit Procedures

The provisions of this Chapter apply to the owner or operator of any source which emits or has the potential to emit any air contaminant in Louisiana. This Chapter dictates permitting procedures under the State permitting program and the federal Title V permitting program, including New Source Review procedures.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 9 General Regulations of Control of Emissions and Emission Standards

Under this Chapter, emission standards are set at levels of air quality for the protection of public health and of public welfare from any known or anticipated adverse effects of air contaminants.

Air pollution control facilities should be installed whenever practically, economically, and technologically feasible. Control facilities shall be operated and maintained in proper working order to ensure the reduction of emissions to the atmosphere, as designed. Unauthorized discharges of any air pollutant into the atmosphere shall be promptly reported and in accordance with the provision in this Chapter.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 11 Control of Emissions of Smoke

This Chapter regulates control of emissions of smoke through establishing opacity limitations from combustion units. Regulations also dictate that outdoor burning of waste material or other combustible material and impairment of road visibility is prohibited.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 13 Emission Standards for Particulate Matter

All reasonable precautions shall be taken to prevent particulate matter from becoming airborne. These precautions shall include but not be limited to use of water or chemicals for control of dust, covering of open-bodied trucks transporting materials likely to become airborne, and paving roadways and maintaining them in a clean condition. LOOP has the general requirement to control the shade or appearance of particulate emissions to less than 20% average opacity, except for one 6-minute period in any 60 consecutive minutes.

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The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 15 Emission Standards for Sulfur Dioxide

Chapter 15 establishes emissions limitations on new or existing sulfuric acid production units, new or existing sulfur recovery plants, and all other single point sources that emit or have the potential to emit 5 tons per year or more of sulfur dioxide into the atmosphere.

EQT005, Turbine Generator (7-78) has the potential to emit 5 tons per year or more of sulfur dioxide into the atmosphere and therefore, is subject to the requirements of this Chapter. The LOOP Complex complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 21 Control of Emission of Organic Compounds

Chapter 21 addresses such activities as control of emissions of organic compounds from storage tanks, fugitives, and best practical housekeeping and maintenance practices of organic compound emissions.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 51 Comprehensive Toxic Air Pollutant Emission Control Program

The provisions of this Chapter apply to the owner or operators of any major source, as defined in this Chapter. A major source is any stationary source (including all emission points and units of such source located within a contiguous area and under common control) of pollutants that emits, or has the potential to emit, in the aggregate, 10 tons per year or more of any toxic air pollutant (TAP) listed in Table 51.1 or 25 tons per year or more of any combination of TAPs listed in Table 51.1.

The LOOP LLC is not considered a major source and is therefore not subject to the requirements of Chapter 51.

Chapter 56 Prevention of Air Pollution Emergency Episodes

Chapter 56 addresses preparation of standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Standby plans shall be designed to reduce or eliminate emissions in accordance with the objectives set forth in LAC 33:III.5611 Tables 5, 6, and 7. When requested by the LDEQ, the LOOP Complex shall prepare and submit a standby plan according to the action level declared. The facility shall have 30 days from the date of request to submit the plan.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 59 Chemical Accident Prevention and Minimization Consequences

Owners and operators of stationary sources producing, processing, handling, or storing substances listed in 40 CFR 68.130, Table 59.0 of this Chapter, or Table 59.1 of this Chapter in quantities greater than the threshold quantities listed in those respective places, have a general duty in the same manner and same extent as Section 654 of Title 29 of the

5510A 6 C-K Associates, LLC

US Code (OSHA) to identify hazards that may result from accidental releases of such substances using appropriate hazard assessment techniques, to design and maintain a safe facility, and to minimize the off-site consequences of accidental release of such substances that do occur.

The LOOP Complex does not handle listed substances in quantities greater than applicability threshold and therefore, not applicable to this Chapter.

Code of Federal Regulations

New Source Performance Standards (NSPS) (40 CFR Part 60)

Subpart A General Provisions

This subpart contains general notification, recordkeeping, and monitoring requirements that apply to any source subject to any NSPS regulation, unless the NSPS regulation specifically exempts the source from the provisions of this subpart.

LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Subpart Ka Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification commenced after May 18, 1978, and Prior to July 23, 1984

The existing crude oil storage tank, Emission Point 1-78 is subject to this part. This tank is equipped with an external floating roof that meets all of the requirements of Subpart Ka.

Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984

The existing crude oil storage tanks, permitted under the existing tank cap (GRP003) are subject to this part, as will be the six new tanks. Each crude oil storage tank is equipped with an external floating roof that meets all of the requirements of Subpart Kb.

Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

The proposed emergency engine will be subject to the emission standards under this Subpart. The engine will be equipped with non-resettable hour meter.

LOOP LLC shall comply with all applicable operating, monitoring, reporting, and recordkeeping requirements provided in this Subpart.

National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 63)

Subpart A General Provisions

This subpart contains general performance test, monitoring, notification, recordkeeping, reporting, and control device requirements that apply to any source subject to any Part 63 NESHAP regulation, unless the NESHAP regulation specifically exempts the source from the provisions of this subpart.

5510A 7 C-K Associates, LLC

LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines

This regulation was recently revised to address existing compression-ignition engines at Major Sources of HAPs. The effective date of the rule is May 3, 2010 and facilities will have three years to comply with applicable requirements.

All stationary reciprocating internal combustion engines, existing and new, at the LOOP Complex are subject to this Subpart. LOOP LLC shall comply with all applicable provisions of this subpart in a timely and forthcoming manner.

Chemical Accident Prevention (40 CFR Part 68)

Owners and operators of stationary sources producing, processing, handling, or storing substances listed in 40 CFR 68.130 in quantities greater than the threshold quantities listed in those respective places, have a general duty in the same manner and same extent as Section 654 of Title 29 of the US Code (OSHA) to identify hazards that may result from accidental releases of such substances using appropriate hazard assessment techniques, to design and maintain a safe facility, and to minimize the off-site consequences of accidental release of such substances that do occur.

The LOOP Complex is not subject to Chemical Accident Prevention provisions and the Risk Management Program (RMP). No regulated substances are handled or stored in quantities greater than the applicable threshold, thus, an RMP is not required.

1.5 PROPOSED EMISSION CHANGES

This application and emissions estimates were prepared with the best data available at the time. Emissions proposed in the below table demonstrate Title V applicability.

TABLE 1 Facility Emissions						
Pollutant	Permitted Emissions (tpy)	Proposed Emissions (tpy)	Net Change (tpy)			
PM10	1.05	2.34	+1.29			
SO2	22.56	1.89	-20.67			
CO	1.76	10.01	+8.25			
NOx	45.56	51.23	+5.67			
Total VOC	93.82	182.59	+88.77			
Total TAPs	3.057	3.70	+0.13			

SECTION 2.0

APPLICATION FOR APPROVAL OF EMISSIONS OF AIR POLLUTANTS FROM PART 70 SOURCES

Department of Environmental Quality Office of Environmental Services Air Permits Division P.O. Box 4313 Baton Rouge, LA 70821-4313 (225) 219-3181

LOUISIANA

Application for Approval of Emissions of Air Pollutants from Part 70 Sources



	PLE	ASE TYPE OR PRINT		
1. Facility Information [LAC	C 33:HI.51	[7. D. 1]		
Facility Name or Pro cess Unit Name	(if any)			ocess Units
LOOP LLC Port Complex	<u> </u>			s Unit-specific Permit
Agency Interest Number (A.I. Numl	ber)		Effective Permit Number	er(s)
4634		1560-0002	7-03	
Company - Name of Owner LOOP LLC				
Company - Name of Operator (if diffe	erent from	Owner)		
Parent Company (if Company – Nam	e of Owner	given above is a divis	ion)	
Ownership: Check the appropriate box.	<u> </u>			
corporation, partnership, or sole prop	rietorship	regulated utility	municipal g	overnment
state government		federal governmen	t 🔀 other, specif	y LLC
2. Physical Location and Pr [LAC 33:III.517.D.18, unless of What does this facility produce? Add m	herwise s	tated]		
The LOOP Complex consists of the	Clovelly Do	ome Storage Termina	l in Galliano, the Sma	ll Boat Harbor in
Leeville, and the Fourchon Booster	Station in L	eeville. The LOOP C	omplex is currently pe	rmitted to handle
230 million barrels of crude oil per y	ear through	the Clovelly Dome s	torage tanks.	
What modifications/changes are propos LOOP proposes to expand its Clove				I storage tanks and
one new emergency diesel generate				
external floating roof tank and havin				or the location of the
new tanks. The capacity of each of	the new tai	nks will be 600,000 b	arrels.	-
Nearest town (in the same parish as t Galliano	he facility):	Parish(es) Lafourche	where facility is locate	ed:
Distance To (mi):	215 Texas	250 Arkansas	65 Mississippi	125 Alabama
Latitude of Facility Front Gate:	<u>29</u> Deg	<u>27</u> Min	<u>11</u> Sec	Hundredths
Longitude of Facility Front Gate:	90 Deg	16 Min	30 Sec	Hundredths
Distance from nearest Class I Area	150	kilometers		
Add physical address and description of directions. Add more rows as necessary LOOP LLC Port Complex (LOOP Co	v. omplex) is I	ocated in Lafourche I		provide driving

- Map attached (required per LAC 33:III.517.D.1) See Figure 1
- Description of processes and products attached (required per LAC 33:III.517.D.2) See Section 1.0
- ☑ Introduction/Description of the proposed project attached (required per LAC 33:III.517.D.5) See Section 1.0

3. Confi	idential	ity [LAC 33.I.0	Chapter 5]					
Are you req	nuesting co	nfidentiality for ar	ny information <u>except a</u>	<u>ir pollutant emissi</u>	on rates?	☐ Yes	⊠ No	
require a si	ubmittal th		onfidentiality is reques m this application. In instructions.					
4. Type	of Appl	ication [LAC	33:III.517.D]					
Complete the the appropri			2) that corresponds to t	he type of permit l	being sou	ight. Ch	eck all that a	pply within
Column 1			•	Column 2			<u> </u>	
☐ Part 70	General			Part 70 Regul	ar		·	
Renewa	ıl			Renewal				
Select one,	if applicab	ole:		Select one, if app	licable:	••		
☐ Entirely				Entirely new				
Modific	☐ Modification or expansion of existing facility (may also include reconciliations) ☐ Reconciliation only			 ☑ Significant modification or expansion of existing facility (may also include reconciliations) [LAC 33:III.527] ☑ Minor modification or expansion of existing facility (may 				
Reconci								
☐ Individu	ıal emissio	ns unit(s) addition		also include r	econciliat	tions) [L	AC 33:III.52	5]
				Reconciliation only				
				NSR Analysis:				
				_	_			
		<u>.</u> .		PSD NNSR				
If yes, provi	ide date th	at the prior applica	application currently					
Select one i	if this appl	_	isting facility that does	-	ality pern	nit:		
	Ĺ	<u> </u>	dfathered (LAC 33:III.	•	010			
	Ĺ		npted (e.g., Small Sour	ce Exemption; Act	1918)			
	ι	Previously Unp	ermittea					
5. Fee I	nforma	tion [LAC 33:	III 517 D 171					
			on an operational para	meter (such as nun	nber of er	nplovee	s or capital c	ost), enter that
parameter h	1ете						-	,,
Industrial	Category:	Enter the Standar	rd Industrial Classificat	ion (SIC) Codes th	at apply	to the fa	cility.	
Primary S	ICC:	4612						
Secondary	SICC(s):							_
	oter 2. Ad	d rows to this table	ode, permit type, produ e as needed. Include w					
FEE		EXISTING	INCREMENTAL		S	URCHA.	RGES	
CODE	TYPE	CAPACITY	CAPACITY INCREASE	MULTIPLIER	NSPS	PSD	AIR TOXICS	TOTAL AMOUNT
1264		i .	1	1				
1364	Major	59.4 MMbbls	3.6 MMbbls	N/A				\$6,286.25

form_7195_r00 06/06/07 \$ \$6,286.25

GRAND TOTAL

If not paying the permit application fee us EFT Transaction Number	sing EFT, leave blank. Date of Submittal	Total Dollar Am	ount
6. Key Dates			
Estimated date construction will commen	ce: May 2011 Estimated da	te operation will commence:	Jan 2012
7. Pending Permit Application [LAC 33:III.517.D.18] List all other process units at this facility acted upon by LDEQ as of the date of sur	ty for which Part 70 permit applicate bmittal of this application. If none,	tions have been submitted, but state "none" in the table. **It is	have not bee
to update this table during the permit re Process Unit Name	view process, unless requested by L Permit Number	.DEQ. ** Date Submitt	 ed
		Date Substitute	
			
8. LAC 33:1.1701 Requiremen	nts – Answer all below fo	r new sources and peri	mit
renewals - Yes No Does the company or owner have federa for which you are applying in Louisiana corporations, or other entities who own environmental management of the facilit	or other states? (This requirement a controlling interest of 50% or mo	applies to all individuals, partn re in your company, or who par	erships, ticipate in the
renewals - \(\subseteq \text{ Yes } \subseteq \text{ No} \) Does the company or owner have federal for which you are applying in Louisiana corporations, or other entities who own environmental management of the facility \(\subseteq \text{ Yes } \subseteq \text{ No} \) If yes, list States: Louisians	or other states? (This requirement a controlling interest of 50% or mo by for an entity applying for the peri	applies to all individuals, partn re in your company, or who par	erships, ticipate in th
renewals - Yes No Does the company or owner have federal for which you are applying in Louisiana corporations, or other entities who own environmental management of the facility Yes No	or other states? (This requirement a controlling interest of 50% or moly for an entity applying for the permana	applies to all individuals, partn re in your company, or who par nit or an ownership interest in t	erships, ticipate in th
renewals - Yes No Does the company or owner have federa for which you are applying in Louisiana corporations, or other entities who own environmental management of the facilit Yes No If yes, list States: Louisia Do you owe any outstanding fees or fina	or other states? (This requirement a controlling interest of 50% or moly for an entity applying for the permana	applies to all individuals, partn re in your company, or who par nit or an ownership interest in t	erships, ticipate in the

9.	Permit	Shield	Request	LAC 33	:III.517.E	7] -	☐ Yes	⊠ No
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If yes, check the appropriate boxes to indicate the type of permit shield being sought. Include the specific regulatory citation(s) for which the shield is being requested. Give an explanation of the circumstances that will justify the permit shield request. Attach additional pages if necessary. If additional pages are used, attach them directly behind this page and enter "See Attached Pages" into the Explanation field.

Type of Permit Shield request (check all that apply):

Non-applicability determination for:	Specific Citation(s)	Explanation
☐ 40 CFR 60		
☐ 40 CFR 61		
☐ 40 CFR 63		
Prevention of Significant Deterioration		
☐ Nonattainment New Source Review		
Interpretation of monitoring, recordkeeping,		
l audiou vanovina paguinomania andiou maano i		
and/or reporting requirements, and/or means	Specific Citation(s)	Fralenstica
of compliance for:	Specific Citation(s)	Explanation
	Specific Citation(s)	Explanation
of compliance for:	Specific Citation(s)	Explanation
of compliance for:	Specific Citation(s)	Explanation
of compliance for: ☐ 40 CFR 60 ☐ 40 CFR 61	Specific Citation(s)	Explanation
of compliance for: ☐ 40 CFR 60 ☐ 40 CFR 61 ☐ 40 CFR 63	Specific Citation(s)	Explanation

10. Certification of Compliance With Applicable Requirements

Statement for Applicable Requirements for Which the Company and Facility Referenced In This Application Is In Compliance

Based on information and belief, formed after reasonable inquiry, the company and facility referenced in this application is in compliance with and will continue to comply with all applicable requirements pertaining to the sources covered by the permit application, as outlined in Tables 1 and 2 in the permit application.

For requirements promulgated as of the date of this certification with compliance dates effective during the permit term, I further certify that the company and facility referenced in this application will comply with such requirements on a timely basis and will continue to comply with such requirements.

CERTIFICATION: I certify, under provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Application for Approval of Emissions of Air Pollutants from Part 70 Sources, including all attachments thereto and the compliance statement above, are true, accurate, and complete.

CERTIFICATION: I certify that the engineering calculations, drawings, and design are true and accurate to the best of my knowledge.

a. Responsible Official		
Name		
CaSandra J. Cooper-Gates		
Title		
Senior Vice President Admini	stration	
Company		
LOOP LLC		
Suite, mail drop, or division		
Street or P.O. Box		
137 Northpark Dr.		
City	State	Zip
Covington	LA	70433-5071
Business phone		
(985) 276-6282		
Email Address		
ccoopergates@looplic.com		

b. Professional Engineer		
Name		
Tracy Fazio, PE		
Title		
Project Engineer		
Company		
C-K Associates, LLC		
Suite, mail drop, or division		
17170 Perkins Rd		
Street or P.O. Box		
City	State	Zip
Baton Rouge	LA	70810
Business phone		
225-755-1000		
Email Address		
tracy,fazio@c-ka.com		

Signature of responsible official (See 40 CFR 70.2):
Pathyse G. Cargos Gales
Date: Desember 21, 2010
•

Signature of Professional Engineer:

Date: 12 12/10

Louisiana Registration No. 33598

11. Personnel [LAC 33:III.517.D.1]

		 _				
a. Manager of Facility	who is loca	ated at plant site	b. On-site contact regard	ling air	pollutio	n control
Name			Name		□ Deima	ry contact
Chris Labat	⊔Pī	rimary contact	Same as a.	'		ry comact
Title	<u> </u>		Title			
General Manager of	Operations	s				
Company	<u> </u>		Company			· ·
LOOP LLC						
Suite, mail drop, or d	ivision	-	Suite, mail drop, or divis	sion		
Street or P.O. Box			Street or P.O. Box			
224 East 101 Place						
City	State	Zip	City	Sta	ite	Zip
Cut Off	LA	70345				
Business phone			Business phone	-		
(985) 696-4836						
Email address	 -		Email address			
calabat@looplic.com	า	<u> </u>				
<u> </u>						
c. Person to contact w	ith written	correspondence	d. Person who prepared	this re	port	
Name			Name			-
Cynthia A. Gardner-		Primary contact	Jennifer Tullier		□Pri	mary contact
LeBlanc	-	·			-	
Title			Title			
Senior Regulatory R	epresentat	ive	Environmental Scientist	t		
Company	<u> </u>		Company			
LOOP LLC			C-K Associates, LLC			
Suite, mail drop, or d	ivision		Suite, mail drop, or divis	sion		
32,			, -			
Street or P.O. Box	-		Street or P.O. Box			
137 Northpark Dr.			17170 Perkins Road			
City	Sta	te Zip	City		State	Zip
Covington	IA	I - I	Baton Rouge		LA	70810
Business phone			Business phone			
(985) 276-6299			225-755-1000			
Email address			Email address			
cgleblanc@looplic.c	om		Jennifer.Tullier@c-ka.com			
- Gienanc@ioopiic.o						
e. Person to contact a	bout Annu	al Maintenance Fees	☐a ☐b ⊠c ☐c	d 🗍 o	ther (spe	cify below)
Name			Suite, mail drop, or division		·	
		Primary contact				
Title			Street or P.O. Box			
Company			City	 -	State	Zip
Business Phone			Email Address		<u>.</u>	<u> </u>
			1			

12. Proposed Project Emissions [LAC 33:III.517.D.3]

List the total emissions following the proposed project for this facility or process unit (for process unit-specific permits). Speciate all criteria pollutants, TAP, and HAP for the proposed project.

Speciate all criteria pollutants, TAP, and HAP for the propo Pollutant	Proposed Emission Rate (tons/yr)
PM10	2.34
SO2	1.89
СО	10.01
NOx	51.23
Total VOC	182.59
Total TAPS	3.70
Acetaldehyde	0.04
Benzene	1.20
Cumene (Isopropyl benzene)	0.03
Ethylbenzene	0.15
Formaldehyde	0.06
n-Hexane	1.12
Toluene	0.66
Xylenes	0.44
	,
	_

13. History of Permitted Emissions [LAC 33:III.517.D.18]

List each of the following in chronological order:

- The Permit Number and Date Action Issued for each air quality permit that has been issued to this facility or
 process unit (for process unit-specific permits) within the last ten (10) years.
- All small source exemptions, authorizations to construct, administrative amendments, case-by-case insignificant
 activities, and changes of tank service that have been approved since the currently effective Title V Operating
 Permit or State Operating Permit was issued to this facility or process unit (for process unit-specific permits). It
 is not necessary to list any such activities issued prior to the issuance of the currently effective Title V Operating
 Permit or State Operating Permit, if one exists.

Permit of State Operating Permit, if one exists.	Th. A. A. A
Permit Number	Date Action Issued
Permit Nos. 903 & 904	2/28/78
1560-00027-01	2/18/00
1560-00027-02	2/5/03
1560-00027-03	6/12/07
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	· · · · · · · · · · · · · · · · · · ·
	<u> </u>

14. Facility-wide Permitted Emissions - For Process Unit-Specific Permits Only [LAC 33:III.517.D.3]

List each of the following:

All currently effective air quality permits for this facility. All process units located at this facility should be represented in this section. This includes any Acid Rain or PSD permits.

For each listed currently effective air quality permit:

- Show each permitting action's grand total for each permitted pollutant. These rates should be those shown in the permitting action as issued by LDEQ and not those shown in the application for the permitting action. For administrative amendments, it is only necessary to state the emission rates that were amended.
- Group the permitted emission rates by permit action. Consult instructions.

As the last entry, show the facility-wide grand total for each pollutant. **Date Action Issued** Pollutant Permitted Emission Rate Permit Actions (tons/yr)

15.a.	Enforcement A	Actions [LAC 33:II]	[.517.D.18] - ☐ Yes 🗵] No
this fac Operat regulat conditi	cility and/or process us ing Permit or State Op- cory authority or authority or imposed by the en-	nit (for process unit-specific perating Permit. For each a crities that issued the action, aforcement action, settleme	e permits) since the issuance ction, list the type of action (and the date that the action	was issued. Summarize the cree in Section 23, Table 2. It is not
or	Type of Action Tracking Number	Issuing Authority	Date Action Issued	Summary of Conditions Included?
				☐ Yes ☐ No
			·	☐ Yes ☐ No
15.Ł	o. Schedule for	Compliance [LAC	33:III.517.E.4] 🗌 Yes	⊠ No
regul		tion of how compliance wi		mpliance with all applicable chedule for compliance below.
			Methods of Complia ner regulatory bodies that pro	
If yes altern speci appe	s, list all correspondent nate methods of compl fic permits). List the condix a copy of all do	ice with LDEQ, EPA, or oth liance with any applicable r date of issuance of the letter cuments referenced in this	ner regulatory bodies that pro egulations for this facility or r and the regulation reference	vides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated
If yes altern speci appe into a	s, list all correspondent nate methods of complific permits). List the condix a copy of all docardinal permit. Add ro	ce with LDEQ, EPA, or oth liance with any applicable r date of issuance of the letter cuments referenced in this ws to table as necessary.	ner regulatory bodies that proge egulations for this facility or and the regulation reference table. Letters that are not i	ovides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated
If yes altern speci appe into a	s, list all correspondent nate methods of compl fic permits). List the condix a copy of all do	ce with LDEQ, EPA, or oth liance with any applicable r date of issuance of the letter cuments referenced in this ws to table as necessary.	ner regulatory bodies that pro egulations for this facility or r and the regulation reference	ovides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated Copy of Letter Attached?
If yes altern speci appe into a	s, list all correspondent nate methods of complific permits). List the condix a copy of all docardinal permit. Add ro	ce with LDEQ, EPA, or oth liance with any applicable r date of issuance of the letter cuments referenced in this ws to table as necessary.	ner regulatory bodies that proge egulations for this facility or and the regulation reference table. Letters that are not i	ovides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated Copy of Letter Attached? Yes No
If yes altern speci appe into a	s, list all correspondent nate methods of complific permits). List the condix a copy of all docardinal permit. Add ro	ce with LDEQ, EPA, or oth liance with any applicable r date of issuance of the letter cuments referenced in this ws to table as necessary.	ner regulatory bodies that proge egulations for this facility or and the regulation reference table. Letters that are not i	covides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated Copy of Letter Attached? Yes
If yes altern speci appe into a	s, list all correspondent nate methods of complific permits). List the condix a copy of all docardinal permit. Add ro	ce with LDEQ, EPA, or oth liance with any applicable r date of issuance of the letter cuments referenced in this ws to table as necessary.	ner regulatory bodies that proge egulations for this facility or and the regulation reference table. Letters that are not i	covides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated Copy of Letter Attached? Yes No Yes No Yes No Yes No Yes No No Yes No No Yes Yes No Yes
If yes altern speci appe into a	s, list all correspondent nate methods of complific permits). List the condix a copy of all docardinal permit. Add ro	ce with LDEQ, EPA, or oth liance with any applicable r date of issuance of the letter cuments referenced in this ws to table as necessary.	ner regulatory bodies that proge egulations for this facility or and the regulation reference table. Letters that are not i	covides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated Copy of Letter Attached? Yes
If yes altern speci appe into a Dat	s, list all correspondent that methods of complific permits). List the condix a copy of all docardinal permit. Add rote Letter Issued	ce with LDEQ, EPA, or oth liance with any applicable r date of issuance of the letter cuments referenced in this ws to table as necessary. Issuing Authority	ner regulatory bodies that programmer regulations for this facility or rand the regulation reference table. Letters that are not i	covides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated Copy of Letter Attached? Yes No Yes No Yes No Yes No Yes No No Yes No No Yes Yes No Yes
If yes altern speci appe into a Dat 17. If yes for the Oper one-tappli	Initial Notificates, list any initial notifinis facility or process rating Permit or State time performance test ication. Any notificat	ce with LDEQ, EPA, or oth liance with any applicable redate of issuance of the letter cuments referenced in this was to table as necessary. Issuing Authority ions and Performatications that have been submit (for process unit-specioperating Permit in order to requirements that have not	ner regulatory bodies that programmer regulations for this facility or and the regulation reference table. Letters that are not in Referenced Regulation(s) Referenced Regulation(s) mitted or one-time performation permits) since the issuance of satisfy regulatory requirements been satisfied should be listed at recur periodically should	covides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated Copy of Letter Attached? Yes No Yes Yes
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If yes altern speci appe into a Dat T7. If yes for th Oper one-tapplic 23, Tapplic 23, Tapplic 23, Tapplic 23, Tapplic 24, Tapplic 25, Tapplic 26, T	s, list all correspondent that methods of complific permits). List the condix a copy of all does a final permit. Add rote Letter Issued Initial Notificates, list any initial notifinities facility or process rating Permit or State time performance test fication. Any notificates table 2 of this application.	ce with LDEQ, EPA, or oth liance with any applicable redate of issuance of the letter cuments referenced in this was to table as necessary. Issuing Authority ions and Performation of the letter cuments referenced in this was to table as necessary. Issuing Authority cations and Performation of the letter cuments that have been submit (for process unit-specific Operating Permit in order to requirements that have not ions or performance tests the liance of the letter cuments and liance of the letter cuments was to table as the liance of the letter cuments and liance of the letter cuments was to table as the liance of the letter cuments was to table as the liance of the letter cuments was to table as the liance of the letter cuments was to table as the liance of the letter cuments was to table as the letter cuments was to table as the liance of the letter cuments was to table as the liance of the letter cuments was to table as the liance of the letter cuments was to table as the liance of the letter cuments was to table as the liance of the letter cuments was the liance of the letter cuments was the	ner regulatory bodies that programmer regulations for this facility or and the regulation reference table. Letters that are not in Referenced Regulation(s) Referenced Regulation(s) mitted or one-time performation permits) since the issuance of satisfy regulatory requirements been satisfied should be listed at recur periodically should	covides for or supports a request for process unit (for process united by the letter. Attach as an included may not be incorporated Copy of Letter Attached? Yes No Yes

18. Existing Prevention of Significant Deterioration or Nonattainment New Source Review Limitations [LAC 33:III.517.D.18]

If "yes," summar	ize the limita	ations from su	ch permit(s)	in the following tab	le. Add rows to	table as necessary. Be sure to
note any annual e Permit Number	Date Issued	Emission Point ID No.	such permit(Pollutant	s) in Sections 13 an BACT/LAER Limit ¹	d 14 of this appli Averaging Period	Description of Control Technology/Work Practice Standards
	<u> </u>					
¹ For example, lb.	<u> </u>	<u> </u>	<u> </u>			
Was Air Quality Quality Dispersi	Dispersion l	Modeling as r	equired by LA	AC 33:III.517.I AC 33:III performed lying for PSD perm	l in support of thi	is permit application? (Air ted by LDEQ.)
Was Air Quality Quality Dispersi ☐ Yes ☑ No Has Air Ouality	Dispersion lon Modeling Dispersion long Dispersion long Design to the permit applies	Modeling as r is only requi Modeling com cation previou	equired by LA red when app pleted in acco usly submitted	AC 33:III performed lying for PSD perm ordance with LAC 3 I for this facility or p	l in support of thi its and as reques 3:III ever been p	is permit application? (Air ted by LDEQ.) verformed for this facility in process unit-specific permits) of
Was Air Quality Quality Dispersi Yes № No Has Air Quality support of a air pas required by of Yes № No	Dispersion loon Modeling Dispersion looemit applicher regulati	Modeling as r is only requi Modeling com cation previou ons AND app	equired by LA red when app pleted in acco usly submitted roved by LDI	AC 33:III performed lying for PSD perm ordance with LAC 3 I for this facility or p EQ?	l in support of thi its and as reques 3:III ever been p process unit (for j	ted by LDEQ.) erformed for this facility in
Was Air Quality Quality Dispersi Yes No Has Air Quality support of a air j as required by o Yes No If yes, enter the	Dispersion I on Modeling Dispersion I permit application wher regulation date the mose	Modeling as register is only required to the control of the contro	equired by LA red when app pleted in acco usly submitted roved by LDI ruality Disper	AC 33:III performed bying for PSD permordance with LAC 3 for this facility or page 2009.	I in support of thi its and as reques 3: III ever been porocess unit (for porocess) Its as required by	ted by LDEQ.) erformed for this facility in process unit-specific permits) of

20. General Condition XVII Activities- Tyes No

Enter all activities that qualify as Louisiana Air Emissions Permit General Condition XVII Activities.

- Expand this table as necessary to include all such activities.
- See instructions to determine what qualifies as a General Condition XVII Activity.
- Do not include emissions from General Condition XVII Activities in the proposed emissions totals for the permit application.

				Emission	Rates - 1	ГРҮ	
Work Activity	Schedule	PM ₁₀	SO ₂	NO,	CO	voc	Other

21. Insignificant Activities [LAC 33:III.501.B.5] - ☐ Yes ☒ No

Enter all activities that qualify as Insignificant Activities.

- Expand this table as necessary to include all such activities.
- For sources claimed to be insignificant based on size or emission rate (LAC 33:III.501.B.5.A), information must be supplied to verify each claim. This may include but is not limited to operating hours, volumes, and heat input ratings.
- If aggregate emissions from all similar pieces of equipment (i.e. all LAC 33:III.501.B.5.A.1 activities) claimed to be insignificant are greater than 5 tons per year for any pollutant, then the activities can not be claimed as insignificant and must be represented as permitted emission sources. Consult instructions.

Emission Point ID No.	Description	Physical/Operating Data	Citation
2-78	Fuel Tank for Emergency Generators (Clovelly Dome)	8,200 gallons	LAC 33:III.501.B.5.A.3
22-78	Emergency Crude Transfer Pump Fuel Tank (Clovelly Dome)	8,200 gallons	LAC 33:III.501.B.5.A.3
25-88	Tank 3 Operations Center Fuel Tank (Clovelly Dome)	550 gallons	LAC 33:III.501.B.5.A.3
26-88	Tank 4 Operations Center Tank (Clovelly Dome)	4,000 gallons	LAC 33:III.501.B.5.A.3
27-88	Tank 5 Fourchon Booster Station Tank	1,000 gallons	LAC 33:111.501.B.5.A.3
28-88	Tank 6 Fourchon Booster Station Emergency Generator Fuel Tank	322 gallons	LAC 33:III.501.B.5.A.3
29-88	Tank 7 Fourchon Booster Station Dock Fuel Tank	560 gallons	LAC 33:III.501.B.5.A.3
30-88	Tank 8 Clovelly Day Tank for Fire Pump	80 gallons	LAC 33:111.501.B.5.A.2
31-88	Tank 9 Clovelly Day Tank for Generator	116 gallons	LAC 33:1II.501.B.5.A.2
32-88	Tank 10 Clovelly Underground Slop Oil Tank by Lab	2,000 gallons	LAC 33:III.501.B.5.A.3
34-88	Tank 12 Small Boat Harbor Tank	260 gallons	LAC 33:III.501.B.5.A.3
36-89	Day Tank for Operations Center Standby Generator (Clovelly Dome)	94 gallons	LAC 33:III.501.B.5.A.2
37-91	Small Boat Harbor Diesel Tank	564 gallons	LAC 33:III.501.B.5.A.3
N/A	Hurricane Season portable generator engines (10)	Emissions from testing < 5 tpy	LAC 33:III.501.B.5.D

22. Regulatory Applicability for Commonly Applicable Regulations – Answer all
below [LAC 33:III.517.D.10] Does this facility contain asbestos or asbestos containing materials? Yes No If "yes," the facility or any portion thereof may be subject to 40 CFR 61, Subpart M, LAC 33:III.Chapter 27, and/or LAC 33:III.5151 and this application must address compliance as stated in Section 23 of this application
Is the facility or process unit represented in this permit subject to 40 CFR 68, or is any other process unit located at the same facility as the process unit represented in this application subject to 40 CFR 68? Yes No If "yes," the entire facility is subject to 40 CFR 68 and LAC 33:III.Chapter 59 and this application must address compliance as stated in Section 23 of this application.
Is the facility listed in LAC 33:III.5611
Table 5 Yes No
Table 6 Yes No
Table 7 Tyes No
Does the applicant own or operate commercial refrigeration equipment normally containing more than 50 pounds of refrigerant at this facility or process unit? Yes No If "yes," the entire facility is subject to 40 CFR 82, Subpart F and this application must address compliance as stated in Section 23 of this application.

23. Applicable Regulations, Air Pollution Control Measures, Monitoring, and Recordkeeping

Important points for Table 1 [LAC 33:III.517.D.10]:

- List in Table 1, by Emission Point ID Number and Descriptive Name of the Equipment, state and federal pollution abatement programs and note the applicability or non-applicability of the regulations to each source.
- Adjust the headings for the columns in Table 1 as necessary to reflect all applicable regulations, in addition to any regulations that do not apply but need an applicability determination to verify this
- For each piece of equipment, enter "1" for each regulation that applies. Enter "2" for each regulation that applies to this type of source, but from which this source of emissions is exempt. Enter "3" for equipment that is subject to a regulation, but does not have any applicable requirements. Also, enter "3" for each regulation that have applicable requirements that apply to the particular emission source but the regulations currently do not apply due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place.
- Leave the spaces blank when the regulations clearly would not apply under any circumstances to the source. For example, LAC 33:III.2103 – Storage of Volatile Organic Compounds would never apply to a steam generating boiler, no matter the circumstances.
- Consult instructions.

Important points for Table 2 [LAC 33:III.517.D.4; LAC 33:III.517.D.7; LAC 33:III.517.D.10]:

- For each piece of equipment listed in Table 2, include all applicable limitation, recordkeeping, reporting, monitoring, and testing requirements. Also include any one-time notification or one-time tests performance test requirements that have not been fulfilled.
- Each of these regulatory aspects (limitation, recordkeeping, reporting, etc.) should be addressed for each regulation that is applicable to each emissions source or emissions point.
- For each regulation that provides a choice regarding the method of compliance, indicate the method
 of compliance that will be employed. It is not sufficient to state that all compliance options will be
 employed, though multiple compliance options may be approved as alternative operating scenarios.
- Consult instructions.

Important points for Table 3 [LAC 33:III.517.D.16]:

- Each time a 2 or a 3 is used to describe applicability of a source in Table 1, an entry should be made in Table 3 that explains the exemption or non-applicability status of the regulation to that source.
- Fill in all requested information in the table.
- The exact regulatory citation that provides for the specific exemption or non-applicability determination should be entered into the Citation Providing for Exemption or Non-applicability column.
- Consult Instructions.

Important points for Table 4 [LAC 33:III.517.D.18]

- List any single emission source that routes its emissions to another point where these emissions are commingled with the emissions of other sources before being released to the atmosphere. Do not list any single emission source in this table that does not route its emissions in this manner.
- List any and all emission sources that are routed as described above. This includes emission sources that do not otherwise appear in this permit application.
- Consult instructions.



TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS LOOP, LLC - Port Complex Lafourche Parish, Louisiana

				73				_	LAC 33:III							
Source ID No.:		2	6	11	13	15	2103	2104		2111	2113	22	29	51	26	59
Facility wide	LOOP LLC Port Complex	-	-		-						-			8	-	8
FOTO03	1-78 Crude Relief Tank (Clovelly Dome)						-									
FOT004	5-78 Slop Oil Tank (Small Boat Harbor.)						3									
FUG001	10-78 Fugitive Emissions (Clovelly Dome)		33							-						
POTOD	11.78 Fourthon Rooster Station No. 2 Fuel Tank No. 1						3									
EQ1003	12-78 Salt Dome Cavities (9) / Piping, and Brine Storage Reservoir (Clovelly Dome)										5					
EQT008	13-78 Fourchon Booster Station No. 2 Fuel Tank No. 2						3									
EQT009	15-78 Fourchon Booster Station Standby Generator			-	-											
EQT011	17-78 Clovelly Dome - Operations Center Standby Generator			-	-											
FOT012	18-78 Clovelly Dome - Emergency Crude Transfer Pump			-	÷											
E 10TO	10.78 Clovelly Dome - Portable Diesel Generator			-	-											
	20.70 Olevelly Eine Burns			-	-											
EQ1014	20-70 Clovelly Fire Fullip				-											
EQ1015	21-78 Clovelly Dome - Standby Generator - Billie Storage Nessavon						,									
EQT016	23-88 Clovelly Dome - Tank 1 Operations Center															
EQIOIA	24-86 Clovelly dome - Tailx 2 Operations Certified 35. 88. Clovelly Dome - Fire School Plimb			-	-											
EQT019	38-91 Clovelly Dome - Operations Center Fire Pump			-	-											
EQT020	5-99 Clovelly Dome - Crude Oil Tank Farm Firewater Pump			-	-											
FOT021	1-07 470 bhp Emergency Generator (Small Boat Harbor)			-	-	-										
EOT022	2-07 470 bho Emeroency Generator (Tank Facility)			-	-											
EQT023	3-07 671 bhp Emergency Generator (Clovelly Dome)			-	-											
EQT024	4-07 671 bhp Emergency Generator (Clovelly Control Room)			-	-											
EQT025	5-07 268 bhp Emergency Generator (OC Warehouse)			-	-	1										
EQT026	6-07 168 bhp Emergency Generator (Locap)			-	-											



0	,								AC 33:III							
ID No.:		5	6	11	13	15	2103	2104	2107	2111	2113	22	29	51	26	69
GRP003	Clovelly Dome Crude Oil Storage Tank CAP	-														
EQT027	1-89 Tank 6401 (Clovelly Dome)						-									
EQT028	2-99 Tank 6402 (Clovelly Dome)						-									
FOTOS	3-99 Tank 6405 (Clovelly Dome)						-									
FOT030	4-99 Tank 6406 (Clovelly Dome)	-					-									
EQT031	6-02 Tank 6409 (Clovelly Dome)						-									
EQT032	7-02 Tank 6410 (Clovelly Dome)			-			-									
EQT033	8-07 Tank 6403 (Clovelly Dome)						-									
FOT034	9-07 Tank 6404 (Clovelly Dome)						-									
	10 OF Talk 6407 (Cleaning Domo)						-									
EQ1035	10-07 I alix 0407 (Clovelly Dollie)			9			-									
EQT036	11-07 Tank 6408 (Clovelly Dome)						. ,								81	
EQT037	12-07 Tank 6411 (Clovelly Dome)						-									
EQT038	13-07 Tank 6412 (Clovelly Dome)						-									
EQT039	14-07 Tank 6413 (Clovelly Dome)	-					-									
EQT040	15-07 Tank 6414 (Clovelly Dome)						-									
MHN	16-10 Tank 6415 (Clovelly Dome)						-									
MEM	17-10 Tank 6416 (Clovelly Dome)						-									
N I	18-10 Tank 6417 (Clovelly Dome)						-	*								
MEN	19-10 Tank 6418 (Clovelly Dome)						-									
VI IV	20-10 Tank 6419 (Clovelly Dome)						-									
	24 40 Tank 8420 (Clovelly Dome)						-									
A L	A I-TO TRING OF CONTROL DOMESTICE			,-	-											
NEW	1-10 320 HP Emergency Generator															



Source			4	40 CFR 60			40 CFR 61	R 61		40 C	40 CFR 63		40 CFR	Æ
ID No.:	Descriptive Name of the Source	4	Ka	A d	99	≣	4	Ŧ	4	^	2222	222222	64	89
die	0 1 000	-							-					8
T ACITY WILL	4 78 Crude Delief Tank (Clouelly Dome)		,											
	1-70 Cidde Neilel Tailk (clovel) Dollie													
EQ1004	5-78 Slop Oil Lank (Small Boat Harbor)		2				4							
FUG001	10-78 Fugitive Emissions (Clovelly Dome)													
EQT006	11-78 Fourchon Booster Station No. 2 Fuel Tank No. 1		8										,	
EQT007	12-78 Salt Dome Cavities (9) / Piping, and Brine Storage Reservoir (Clovelly Dome)													
FOTO08	13-78 Fourchon Booster Station No. 2 Fuel Tank No. 2		3											
a do For	46.78 Fourthon Rooster Station Standby Generator					က					-			
	170-7 O'T					6					•			
	17-70 Cityeny Done - Operations Control Operations					က								
1000	10-7 0 Clovelly Done - Enlanguage of Control					က					-			
EQ1013	19-76 CiOvelly Dottle - Portable Dieser Generator					0					-			
EQ1014	20-78 Clovelly Dome - Standby Generator - Brine Storage Reservoir.					0					-			
E0T016	23-88 Clovelly Dome - Tank 1 Operations Center			8								-		
EOT017	24-88 Clovely dome - Tank 2 Operations Center			3								-		
2 TO TO	35.88 Chyally Dome - Fire School Pump					3					-			
	Godd Gloveny Donner The Golden Strip					6					-			
EQ1019	38-91 Clovelly Dome - Operations Center rite Fump					, e					-			
EOT021	1-07 470 hhn Emercancy Generator (Small Boat Harbor)					3					-			
EQT022	2-07 470 bhp Emergency Generator (Tank Facility)					3					-			
EOT023	3-07 671 bhp Emergency Generator (Clovelly Dome)					3				-	-			
1														



Source			4	40 CFR 60			40 CF	40 CFR 61		400	40 CFR 63		40 CFR	FR
ID No.:	Descriptive Name of the Source	4	Ka	Kb	99	I	٨	Ħ	A	>	2222	22222	64	89
ECOTO 2	4 07 871 hhn Emercency Generator (Clovelly Control Room)					3					-			
10101	6 07 289 km Emergency Constant (OC Warshouse)					3					-			
EQ 1025	5-07 Zoo bip Einelgency Generator (OC vvarences)					e					-			
EQ1026	6-07 168 bnp Emergency Generator (Locab)			,										
GRP003	Clovelly Dome Crude Oil Storage Tank CAP			-										
EQT027	1-99 Tank 6401 (Clovelly Dome)			-										
EQT028	2-99 Tank 6402 (Clovelly Dome)			-								-		
EOTO20	3-00 Tank 6405 (Clovelly Dome)			-										
	1 OO Task bake (Claudh Dome)			-										
EQ 1030	4-99 Idilk 0400 (Clovelly Dolle)													
EQT031	6-02 Tank 6409 (Clovelly Dome)													
EQT032	7-02 Tank 6410 (Clovelly Dome)													
EQT033	8-07 Tank 6403 (Clovelly Dome)			-										
EOTO34	O OT Tank RADA (Clovelly Dome)			-										
	ord Tain Ord (County County)													
EQ1035	10-u/ Tank 04u/ (Clovelly Dollie)			-								•		
EQ1036	11-0/ I ank 0400 (Clovelly Dollie)			-										
EQT037	12-07 Tank 6411 (Clovelly Dome)													
EQT038	13-07 Tank 6412 (Clovelly Dome)													
EQT039	14-07 Tank 6413 (Clovelly Dome)													
EQT040	15-07 Tank 6414 (Clovelly Dome)			-										
NEW	16-10 Tank 6415 (Clovelly Dome)			-										2
MIN	17-10 Tank 6416 (Clovelly Dome)			-										



Source			,	40 CFR 60			40 CF	40 CFR 61		40 0	40 CFR 63		40 0	40 CFR
ID No.:	Descriptive Name of the Source	A	Ka	Kb	99	≣	٨	Ħ	A	>	2222	ZZZZ CCCCCC	64	89
MEW	18-10 Tank 6417 (Clovelly Dome)			1										
NEW	19-10 Tank 6418 (Clovelly Dome)			-										
MH N	20-10 Tank 6419 (Clovelly Dome)			1										
NEW	21-10 Tank 6420 (Clovelly Dome)			-										
NEW	1-10 520 HP Emergency Generator					-					-			

KEY.

- 1 The regulations have applicable requirements, which apply to this particular emission source. The emissions source may have an exemption from the control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 The regulations have applicable requirements, which may apply to this particular emissions source, but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has been constructed, modified, or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

TABLE 2: STATE AND FEDERAL REQUIREMENTS LOOP, LLC - Port Complex Lafourche Parish, Louisiana

				Averaging	
 Fmission Point ID				Period/	State Only
No:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Frequency	Requirement
FOTOR		Requirements that ilmit emissions or operations	- 80		
1-78 Crude Relief	Chapter 21 - Control of	Equip with a submerged fill pipe.	LAC 33:III.2103.B		
Tank (Clovelly	Emission of Organic	Seal closure devices required in LAC 33:III.2103D shall have no visible	LAC 33:III.2103.D.2.a		
Dome)	Compounds	holes, tears, or other openings in the seals or seal fabric.			
		Seal closure devices required in LAC 33:III.2103D shall be intact and uniformly in place around the circumference of the floating roof and the tank	LAC 33:III.2103.D.2.b		
		wall.			
		Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3m), for gaps between LAC 33:III.2103.D.2.c	LAC 33:III.2103.D.2.c	All year	
		the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.			
		Seal nan area <= 10 in^2/ft of tank diameter (65 cm2/0.3m), for gaps	LAC 33:111.2103.D.2.d	All year	,
		between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in		ı	
		e	LAC 33:III.2103.D.2.e		
		conditions by ordering appropriate parts, to avoid noncompliance with LAC			
		33:III.2103. Complete repairs within three months of the ordering of the			
		repair parts.	4 0 00 111 0400 0 0		
		Provide all openings in the external floating roof (except for automatic	LAC 33:111.2103.D.3		
		bleeder vents, rim space vent, and leg sleeves) with a projection below the			
		liquid surface. Equip each opening in the roof (except for automatic pleeder			
		vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid			
		that is to be maintained in a closed position at all times except when the			
		device is in actual use. Keep automatic bleeder vents closed at all times			•
		except when the roof is being floated off the roof leg supports. Set rim vents			
		to open when the roof is being floated off the roof leg supports or at the			
		manufacturer's recommended setting. Equip any emergency roof drain with			
		a stotted membrane fabric cover or equivalent cover that covers at least 90%			
		double	LAC 33:111.2103.D		
		deck type roof, or external floating cover which will rest or float on the			
		surface of the liquid contents and is equipped with a primary closure seal to			
		close the space between the roof edge and tank wall and a continuous			
		secondary seal (a rim mounted secondary) extending from the floating roof			
		to the tank wall.			
		Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in	LAC 33:III.2103.H		
		LAC 33:111.2103.H.			
		Determine VOC maximum true vapor pressure using the methods in LAC	LAC 33:III.2103.H.3		
		33:III.2103.H.3.a-e.			

TABLE 2: STATE AND FEDERAL REQUIREMENTS LOOP, LLC - Port Complex Lafourche Parish, Louisiana

ing State Only																												_
Averaging Period/	Frequency		All year	All year							All year			All year														
	Compliance Citation	40 CFR 60.112a(a)(1)(i)	40 CFR 60.112a(a)(1)(i)(A)	40 CFR 60.112a(a)(1)(i)(A)		40 CFR 60.112a(a)(1)(i)(C)		40 CFR 60.112a(a)(1)(i)(D)	40 CFR 60.112a(a)(1)(ii)(A)		40 CFR 60.112a(a)(1)(ii)(B)			40 CEB 60 1132(3)(1)(ii)(B)	40 OF N 00. 1 148(8)(1)(11)(12)		40 CFR 60.112a(a)(1)(ii)(C)	40 000 4402/2/(3)	40 CFR 50. 1128(8)(1)(III)								40 OF O 60 449=/=/43/6:3	
	Compliance Method/Provision	The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vanor-mounted seal	Seal gap area <= 10.0 in^2/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe	seal or liquid-mounted primary seal. Seal gap width <= 1.5 in (3.81 cm) for the width of any portion of any gap	between the tank wall and the mechanical shoe seal or liquid-mounted	One end of the primary seal metallic shoe is to extend into the stored liquid,	and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface.	There are to be no holes, tears, or other openings in the shoe, primary seal	rabric, or seal envelope. Install the secondary seal above the primary seas so that it completely	covers the space between the roof edge and the tank wall except as	Seal gap area <= 1.0 in^2/ft (21.2 sq cm/meter) of tank diameter for the	accumulated area of gaps between the tank wall and the secondary seas	used in combination with a metallic shoe or liquid-mounted primary seal.	A STATE OF THE PARTY OF THE PAR	Seal gap width <= 0.5 in (1.27 cm) for the width of any position of any gap. between the tank wall and the secondary seal used in combination with a	metallic shoe or liquid-mounted primary seal.	There are to be no holes, tears, or other openings in the secondary seal	fabric, or seal fabric.	Each opening in the roof except for automatic bleeder vents and rim space	vents is to provide a projection below tile liquid sufface. Equip each opening in the roof except for the automatic bleeder vents, rim space vents and led	sleeve with a cover, seal or lid and maintain in a closed position at all times	(i.e., no visible gap) except when the device is in actual use or as described	in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times	when the roof is floating, except when the roof is being floated off or is being	landed on the roof leg supports. Set rim vents to open when the roof is	being floated off the roof leg supports or at the manufacturers recommended	setting.	
	Applicable Requirement	40 CFR Part 60	Standards of Performance for Storage Vessels for	Petroleum Liquids for Which Construction,	Reconstruction, or	After May 18,'1978, and	Prior to July 23, 1984																					
	Emission Point ID No.:	o io																										_

TABLE 2: STATE AND FEDERAL REQUIREMENTS LOOP, LLC - Port Complex Lafourche Parish, Louisiana

Emission Point ID	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
Relief elly	40 CFR 60 NSPS Subpart Ka	Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	40 CFR 60.112a(a)(1)		
		Requirements that specify monitoring -			
	Chapter 21 - Control of	Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.	LAC 33;III.2103.D.2.e	All year	
	Compounds	Secondary seals: Seal gap area & width monitored by measurement annually at any tank level provided the roof is off its leds.	LAC 33:III.2103.D.2.e	All year	
		rement once every		All year	
	40 CFR Part 60 NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or	egulations Im gap widths of the initial fill after using the mary seal ral or distodging of secondary seal as		All year	
	After May 18, 1978, and Prior to July 23, 1984	Seal gap area & width monitored by measurement at the regulations specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii).	3a(a)(1)(i)(B)	All year	
		cify records to be kept and record r	etention time -		
	Chapter 21 - Control of Emission of Organic Compounds		LAC 33:III.2103.D.2.e		
		Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1-7, as applicable.	LAC 33:III.2103.I		

6				Averaging Perlod/	State Only
Emission Point ID	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Frequency	Requirement
nude Relief Clovelly	40 CFR Part 60 NSPS Subpart Ka - Standards of Performance	ard copy upon each scord shall identify the I shall contain the ed in the	40 CFR 60.113a(a)(1)(i)(D)		
Dome)	Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced	d the of each gap wing the date			
	After May 18, 1978, and Prior to July 23, 1984	storage data recordkeeping by electronic or hard copy aintain a record of the petroleum liquid stored, the period of maximum true vapor pressure of that liquid during the le period, except as provided in 40 CFR 60.115.a(d).	40 CFR 60.115a		
		Requirements that specify reports to be submitted	- pa		
	40 CFR Part 60 NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or	Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified in 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a.	40 CFR 60.113a(a)(1)(i)(E)		
	After May 18, 1978, and	Submit notification: Due to DEQ at least 30 days prior to the gap	40 CFR 60.113a(a)(1)(iv)		
		Requirements that specify performance testing -	- 6		
		None			
EQT009 - EQT015 & EQT018 -		Requirements that Ilmit emissions or operations - Opacity <= 20%, except during the cleaning of a fire box or building of a new LAC 33:III.1101.B	LAC 33:III.1101.B		
EQT026 Internal Combustion Engines	Emissions of Smoke	fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20% for not more than one six-minute period in any 60 consecutive			-
	Chapter 13 - Emission Standards for Particulate	c= 20%; except emissions may have an average opacity in excess or not more than one six-minute period in any 60 consecutive	LAC 33:111.1311.C	All year	
	Matter 40 CFR Part 63	minutes. Operate the engine according to the conditions described in 40 CFR	40 CFR 63.6640(f)		
	Subpart ZZZZ	63.6640(f)(1)-(4)			

Emission Point ID			noticeti O consiliumo O	Averaging Period/	State Only
plicat	Applicable Requirement	Compilance Method/Provision	Compilance Citation	Liedneiicy	Waddin anniani
		٦			
40 CFR Part 63 Subpart ZZZZ	art 63 722	Monitor how may hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for an emergency operation. If the entities are used for demand response	40 CFR 63.8655(f)(2)		
		operation, keep records of the notification of the emergency situation, and			
		the time the engine was operated as part of demand response.			
40 000	24.63	Vocas seconds of the maintenance conducted on the stationary RICE in order 140 CFR 63 6655(e)	40 CFR 63 6655(e)		
Subpart ZZZZ	ZZZ.	to demonstrate that you operated and maintained the stationary RICE and			
•		after-treatment control device (if any) according to your own maintenance			•
		plan.	40 CFR 63 6655(f)(2)		
		the nonresettable hour meter. Document how may hours are spent for	(-)())		
		emergency operation, including what classified the operation as emergency			
		and how many hours are spent for non-emergency operation. If the engines			
		are used for demand response operation, keep records of the notification of			
		the emergency situation, and the time the engine was operated as part of			
			1000		
40 CFR Part 63	art 63	Keep records in a form suitable and readily available for expeditions review	40 CFR 63.6660		
y Heddon	•	ng the date of each occurrence,	40 CFR 63.6660		
		measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1)			
ŀ		Regulrements that specify reports to be submitted -	pe		
		None			
		Requirements that specify performance testing	- 6	, , ,	
		None			
		Requirements that Ilmit emissions or operations	- 81		
Chapter 2	Chapter 21 - Control of	Equip with a submerged fill pipe.	LAC 33:III.2103.B		
40 CFR 6 CCCCC Sasoline	40 CFR 63 Subpart CCCCCC NESHAPs for Gasoline Dispensing	ie handled in a manner that would result in e for extended periods of time. Measures to ited to, the following: (1) minimize gasoline	40 CFR 63.11116(a)		
Facilities	•	spills; (2) clean up spills as expeditiously as practicable; (3) cover all open qasoline containers and all gasoline storage tank fill-pipes with a gasketed			
		seal when not in use; and (4) minimize gasoline sent to open waste collection systems that collect and transport dasoline to reclamation and		,	
		recycling devices, such as oil/water separators.			
	-	Compliance date for existing units is January 10, 2011.			

Emission Point ID No.: Ap					
				Period/	State Only
EQT016 &	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Frequency	Requirement
		Requirements that specify monitoring -			
EQT017 23-88 & Ch	Chapter 21 - Control of		LAC 33:III.2103.H.3		
-	Emission of Organic	33:III.2103.H.3.a-e.			
Dome)	Springer	Requirements that specify records to be kept and record retention time	etention time -		
	Chapter 21 - Control of	rdkeeping by electronic or hard copy at the	LAC 33:111.2103.1		
E	Emission of Organic	regulation's specified frequency. Keep records of the information specified			
<u>ු</u>	Compounds	Τ	40 CED 63 11116(b)		
04.7	40 CFR 63 Subpart	Make available within 24 hours of a request by the Administrator record of a casoline throughout.	40 CTA 63.1110(b)		·
	Gasoline Dispensing				
Ę.	Facilities		•		
	•	Requirements that specify reports to be submitted -	- peg		-
		None			
		Requirements that specify performance testing -	- 5		
		None			
FOT027 - FOT040		Requirements that limit emissions or operations -	- BL		
	Chapter 21 - Control of	Equip with a submerged fill pipe.	LAC 33:111.2103.B		
	Emission of Organic	ave no visible	LAC 33:III.2103.D.2.a		
Crude Oil Storage Co	Compounds				
	Chapter 21 - Control of Emission of Organic	e intact and g roof and the tank	LAC 33:III.2103.D.2.b		
<u>0</u>	Compounds	wall.			
		Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3m), for gaps between LAC 33:III.2103.D.2.c the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.	LAC 33:III.Z103.D.Z.c	All year	
	,	Seal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in	LAC 33:III.2103.D.2.d	All year	
		Ì			
		S C S	LAC 33:III.2103.D.2.e		
		33:III.2103. Complete repairs within three months of the ordering of the repair parts.			

State Only	Requirement					
	Frequency					
	Compliance Citation	LAC 33:III.2103.D.3	LAC 33:III.2103.D	LAC 33:III.2103.H	LAC 33:III.2103.H.3	40 CFR 60.112b(a)(2)(ii)
	Compliance Method/Provision	Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90% of the opening.	Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.	Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.	Except for automatic bleeder vents and rim space vents, each opening in a non contact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90% of the area of the opening.
	Applicable Requirement	EQT027 - EQT040 Chapter 21 - Control of and six (6) new Emission of Organic tanks Compounds Crude Oil Storage Tanks (Clovelly Dome)				40 CFR Part 60 NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984
Emission Point ID	No.:	EQT027 - EQT040 and six (6) new tanks Crude Oil Storage Tanks (Clovelly Dome)				

State Only	Requirement									
Averaging	·y			All year	All year				All year	All year
	Compliance Citation	40 CFR 60.112b(a)(2)	40 CFR 60.113b(b)(3)	40 CFR 60.113b(b)(4)(i)	40 CFR 60.113b(b)(4)(i)	40 CFR 60.113b(b)(4)(i)(A)	40 CFR 60.113b(b)(4)(i)(B)	40 CFR 60.113b(b)(4)(ii)(A)		40 CFR 60.113b(b)(4)(ii)(B)
	Compliance Method/Provision	Equip with an external floating roof consisting of a pontoon-type or doubledeck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except as during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4).	Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe seal or liquid-mounted	Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal.	One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 centimeters above the stored liquid surface.	There are to be no holes, tears, or other openings in the shoe, primary seal fabric or seal envelope	Install the secondary seal above the primary seal so that it completely covers 40 CFR 60.113b(b)(4)(ii)(A) the space between the roof edge and the tank wall except as provided in 40	Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps 40 CFR 60.113b(b)(4)(ii)(B) hothings the tank wall and the secondary seal	Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal.
	Applicable Requirement	40 CFR Part 60 NSPS Subpart Kb								
	Emission Point ID No.:	OT040 ew orage elly								

				Avereging	
411111111111111111111111111111111111111				Period/	State Only
Emission Foint ID	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Frequency	Requirement
OT040 4	40 CFR Part 60 NSPS Subpart Kb	e secondary seal	40 CFR 60.113b(b)(4)(ii)(C)		
tanks Cride Oil Storage			40 CFR 60.113b(b)(4)		
Tanks (Clovelly		identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4)(i) and (ii) except as specified in 40 CFR			
Come)		一	10 CED 60 413h/h)/6\(\)		
		If the external floating roof has defects, the primary seal has notes, tears, or 140 CTR	(1)(0)(0)(0)		
		other openings in the seal of the seal fabric, or the secondary sear has horse, tears, or other openings in the seal or the seal fabric, repair the items as			
		necessary so that none of the conditions specified in this paragraph exist			
		before filling or refilling the storage vessel with VOL. Deantipements that executive monitoring -			
	Shouter 34 Control of	F	LAC 33:111.2103.D.2.e	All year	
<u> </u>	Chapter 21 - Control of Emission of Organic			•	
	Compounds	asurement	LAC 33:III.2103.D.2.e	All year	•
		annually at any tank tevel, provided the roof is off its legs.			
		Primary seals: Seal gap area & width monitored by measurement once every LAC 33:III.2103.D.2.e		All year	
		five years at any tank level, provided the roof is off its legs.	,	ļ	
T.4	40 CFR Part 60	'n	40 CFR 60.113b(b)(1)(i)	All year	
	NSPS Subpart Kb -	specified frequency. Using the procedures in 40 CFR 60.113b(b)(2)			
<u></u>	Standards of Performance	determine the gap areas and maximum gap widths between the primary seal			•
	for Volatile Organic Liquid	and the wall of the storage vessel during hydrostatic testing of the vessel or			
<u></u>	Storage Vessels for Which	within 60 days of the initial fill with VOL and at least once every 5 years			
	Construction,				ı
	Reconstruction, or		40 CFR 60.113b(b)(1)(ii)	All year	
	Modification Commenced	specified frequency. Using the procedures in 40 CFR 60.113b(b)(2)			
	After July 23, 1984	determine the gap areas and maximum gap widths between the secondary			
		seal and the wall of the storage vessel within 60 days of the initial fill with			
			40 CEB 60 113h(h)/6)	All year	
		by visual inspection/determination at the	(0)(0)(0)	in year	
		regulation's specified frequency. Inspect the external floating roof, the			
		primary seal, the secondary seal, and fittings each time the storage vesser is			
		emplied and deglassed.	on time -		
		il.	1 00 33-111 2103 0 2 6		
<u></u>	Chapter 21 - Control of	LION TO	5.11.5.103.D.5.6		
	Emission of Organic	occurrence of event. Keep records of conditions that are not up to the			
	Compounds	standards described in LAC 33:111.2103.D.2 and the date(s) that the			
		standards are not met. Notify the administrative authority within seven days			
		of noncompliance with LAC 33:111.2103.D.2			

State Only	Requirement									
Averaging Period/	<u>, Y</u>							·		
	Compliance Citation	LAC 33:111.2103.1	40 CFR 60.115b(b)(4)	40 CFR 60.116b(b)	40 CFR 60.116b(c)	- pe	40 CFR 60.113b(b)(5)	40 CFR 60.113b(b)(6)(ii)		40 CFR 60.115b(b)(1)
	Compliance Method/Provision	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 1.0.33:11.2103.1.2.7. as applicable.	y electronic or hard copy upon each mance, as required by 40 CFR the storage vessel in which the II contain the date of the n the measurement, the calculation 1 (b)(3). Keep copies of all records at	Equipment/operational data recordkeeping by electronic or hard copy Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60 1466a.	VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep		Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1)to afford DEQ the opportunity to have an observer present.	_	not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling.	Submit a report to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least
	Anolicable Requirement	EQT027 - EQT040 Chapter 21 - Control of and six (6) new Emission of Organic	40 CFR Part 60 NSPS Subpart Kb - Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or	After July 23, 1984			40 CFR Part 60 NSPS Subpart Kb - Standards of Performance	for Volatile Organic Liquid Storage Vessels for Which Construction, or	Modification Commenced After July 23, 1984	
	Emission Point ID	EQT027 - EQT040 and six (6) new	tanks Crude Oil Storage Tanks (Clovelly Dome)							

Emica Doint				Averaging Period/	State Only
No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Frequency	Requirement
EQT027 - EQT040 and six (6) new tanks Crude Oil Storage	EQT027 - EQT040 40 CFR Part 60 NSPS and six (6) new Subpart Kb tanks Crude Oil Storage	Submit a report to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain the date of measurement, the raw data obtained in the measurement, the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years.	40 CFR 60.115b(b)(2)		
Dome)		3 days after each seal gap measurement ations specified in 40 CFR 60.113b(b)(4). I and contain the information specified in 40 the vessel was emptied or the repairs made of all reports for at least two years.	40 CFR 60.115b(b)(4)	-	
		Requirements that specify performance testing	ſ		
	40 CFR Part 60 NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid	Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and 40 CFR 60.113b(b)(1)(ii) maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once year thereafter.		All year	
	Storage Vessels for Which Construction, or Reconstruction, or Modification Commenced				
1000	Arrei July 23, 1804	Requirements that Ilmit emissions or operations	-		
10-78 Fugitive Emissions	Chapter 21 - Control of Emission of Organic	Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling	LAC 33:III.2111		
(Clovelly Dome)	Compounds	Requirements that specify monitoring -			
		None			
		Requirements that specify records to be kept and record retention time	tention time -		
		Requirements that specify reports to be submitted	.		
		None			
		Requirements that specify performance testing -			
		None			
1-10		Requirements that limit emissions or operations	. 6		
520 HP	Chapter 11 - Control of Emissions of Smoke	Opacity <= 20%, except during the cleaning of a fire box or building of a new L fire, soot blowing or lancing, charging of an incinerator, equipment changes.	LAC 33:III.1101.B		
Generator		ash removal or rapping of precipitators, which may have an opacity in excess of 20% for not more than one six-minute period in any 60 consecutive			
		minutes.			

Emission Point ID	Compliance Method/Provision	Compliance Citation	Averaging Period/	State Only Requirement
Chapter 13 - Emission Standards for Particulate Matter	ge opacity in excess 30 consecutive	LAC 33:III.1311.C	All year	
NSPS Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	For the purpose of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator. The provisions of this subpart are applicable to manufactures, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 11, 2005 where the stationary CI ICE are manufactured after April 1, 2006 and are not fire pump engines.	40 CFR 60.4200(a)(2)(i)		
	Owners and operators of 2007 model year and later emergency stationary CI 40 CFR 60.4205(b) ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in 60.4202 for all pollutants, for the same model year and maximum engine power for their 2007 model year and later stationary CI ICE.	40 CFR 60.4205(b)		
	Operate and maintain CLICE in accordance with approved manufacturer specifications that comply with the applicable emission standards over the lifetime of the engine	40 CFR 60.4206		
	2010, owners and operators of stationary CI ICE t with a displacement of less than 30 liters per cylinder ust use diesel fuel that meets the requirement of 40 mond diesel fuel.	40 CFR 60.4207(b)		
	After December 31, 2008, owners and operators may not install stationary CI 40 CFR 60.4208(a) ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.	40 CFR 60.4208(a)		
	Engine must be equipped with a non-resettable hour meter prior to startup of 40 CFR 60.4209(a) the engine	40 CFR 60.4209(a)		
	id maintain the stationary CI internal combustion engine and ice according to the manufacturer's written instructions or	40 CFR 60.4211(a)		
	procedures developed by the owner or operator that are approved by the engine manufacturer. You may only change those settings that are			
	permitted by the manufacturer. You must meet the requirements of 40 CFR parts 89, 94, and/or 1068, as they apply to you.			

				Averaging	
Emission Point ID				Period/	State Only
No.:		Compliance Method/Provision	Compliance Citation	Frequency	Requirement
1-10 520 HP Emergency Generator	40 CFR 60 NSPS Subpart	40 CFR 60 NSPS Subpart 1ff you are an owner or operator of a 2007 model year and later CI internal combustion engine and must comply with the emission standards specified in 60.4205(b), you must comply by purchasing an engine certified to the emission standards in 60.4205(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.	40 CFR 60.4211(c)		
		Emergency stationary ICE may be operated for the purposes of maintenance 40 CFR 60.4211(e) checks and readiness testing (limited to 100 hours/yr), provided the tests are recommended by Federal, State, or Local government, the manufacturer, the vendor, or the insurance company associated with the engine. LOOP may petition for more than 100 hrs/yr limit. Any operation of this engine other than and maintenance and testing as permitted in this	0 CFR 60.4211(e)		
			40 CEB 63 6500(c)		
	40 CFR 63 Subpart ZZZZ RICE MACT		0 CFR 63.6350(c)		
	Part 80 - Regulation of Fuels and Fuel Additives	As referenced in 40 CFR 60.4207(b), diesel fuel is subject to the following per-gallon standards: sulfur content of 15 ppm maximum for NR diesel fuel or 500 ppm for LM diesel fuel and a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.	40 CFR 80.510(b)		
		Requirements that specify monitoring -			
		None			
		Requirements that specify records to be kept and record retention time -	bention time -		
		None			
		amons 1	40 CFR 60 4214(b)		
	NSPS Subpart IIII - Standards of Performance	applicability to this subpart.			
	for Stationary Compression				
	Combustion Engines				
		Requirements that specify performance testing			
		None			

				Averaging	
Fmission Point ID				Period/	State Only
No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Frequency	Requirement
GRPOO3		Requirements that limit emissions or operations	- 81		
Tank Cap	Chapter 5 - Permit	а	LAC 33:III.501.C.6		
	Procedures	reportable violation of the permit. Notify the Office of Environmental			
		Compliance, Enforcement Division if the total emissions from crude oil			
		storage tanks exceeds the maximum listed in this specific condition for any twelve consecutive month period.			
		Requirements that specify monitoring -			
	2	None			
		Requirements that specify records to be kept and record retention time	etention time -		
	Chapter 5 - Permit	Emissions recordkeeping by electronic or hard copy monthly. Keep	LAC 33:111.501.C.6		
	Procedures	records of total emissions from crude oil storage tanks each month, as			
		well as emissions for the last twelve months. Make records available			
		Ifor inspection by DEQ personnel.			
	-	Requirements that specify reports to be submitted	.pg		
	Chapter 5 - Permit	Submit report annually by the 31st of March. Report the total emissions LAC 33:III.501.C.6	LAC 33:111.501.C.6		
	Procedures	from crude oil storage tanks for the preceding calendar year to the			
		Office of Environmental Compliance, Enforcement Division.			
	•	Requirements that specify performance testing -	- 6		1 24 34
		None			
GRP004		Requirements that ilmit emissions or operations -	18 -		
Entire Facility	Chapter 13 - Emission	Emissions of particulate matter which pass onto or across a public road and LAC 33:III.1303.B	LAC 33:III.1303.B		
	Standards for Particulate	create a traffic hazard by impairment of visibility or intensify an existing traffic			
	Matter	_			
	Chapter 21 - Control of		LAC 33:III.2113.A		
	Emission of Organic	highest possible standards to reduce the quantity of organic compounds			
	Compounds	emissions. Good housekeeping shall include, but not be limited to , the			
		practices listed in LAC 33:III.2113.A.1-5.			
	Chapter 2 - Rules and	Failure to pay the prescribed application fee or annual fee as provided	LAC 33:111.219		
	Regulations for the Fee	herein, within 90 days after the due date, will constitute a violation of these			
	System of the Air Quality	regulations and shall subject the person to applicable enforcement actions			
	Control Program	under the Louisiana Environmental Quality Act including, but not limited to,			
		revocation or suspension of the applicable permit, license, registration, or			
	Chapter 56 - Prevention of	During an Air Pollution Alert, Air Pollution Warning or Air Pollution	LAC 33:III.5611.B		
	Air Pollution Emergency	Emergency, make the standby plan available on the premises to any person			
	Episodes	authorized by the department to enforce these regulations.			

			Period/	State Only
Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision Compliance Citation	Frequency	Requirement
GRP004 Entire Facility	40 CFR Part 60 Subpart A - General Provisions	All affected facilities shall comply with all applicable provisions in 40 CFR 60 40 CFR 60 Subpart A	·	
	ırt 63 - General	All affected facilities shall comply with all applicable provisions in 40 CFR 63 40 CFR 63 Subpart A		
		Requirements that specify monitoring -		`
		None		
		Requirements that specify records to be kept and record retention time -		
		None		
		Requirements that specify reports to be submitted -		
	Chapter 9 - General Regulations of Control of	Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, LAC 33:III.919.D by the 31st of March for the period January 1 to December 31 of the		-
	and Emission	previous year unless otherwise directed. Submit emission inventory data in		
	Standards	data applicable to the emissions source(s), as specified in LAC 33:III.919.A-		-
	Т	T		
	Chapter 56 - Prevention of Air Pollution Emergency	Submit standby plan for the reduction or elimination of emissions during an LAC 33:III.30 LAC 34:III.30 LA		•
		within 30 days after requested by the administrative authority.	-	
GRP004		testin		
Entire Facility	40 CFR 70 Title V	Submit Title V permit application for renewal 180 calendar days before 40 CFR 70.5(a)(1)(iii)		
	Permitting Program	Submit Title V monitoring results report semiannually, by March 31st and Submit Title V monitoring results report semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reference the in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the prior report was submitted.		

6	Period/ State Only	Compliance Citation Frequency Requirement	FR 70.5(a)(1)(iii)(B)	FR 70.6.(c)(5)(iv)
		Compliance Method/Provision	Submit Title V excess emissions report semi-annually, by September 30, and 40 CFR 70.6(a)(1)(ii)(B) March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required included and clearly delineated in the consolidated report.	Submit Title V compliance certification annually, by March 31st to the Office 40 CFR 70.6 (c)(5)(iv)
		Applicable Requirement	40 CFR 70 Title V Permitting Program E	
	Emission Point ID	No.:	GRP004 Entire Facility	

TABLE 3: EXPLANATION FOR EXEMPTION STATUS OR NON-APPLICABILITY OF A SOURCE LOOP, LLC - Port Complex Lafourche Parish, Louisiana

				Fitting Designed for Evented or Non-
. old Clienta O animates	Section 8	Exempt or Does Not Apply	Explanation	applicability
ţ	Storage of Votatile Organic Compounds	Does Not Apply	Tank 5-78 has a capacity > 40,000 and stores wastewater and tube oils with typ < 1.5 psia.	LAC 33:III,2103.B
	Subpart Ka—Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984.	Does Not Apply	Tank 5-78 contains primarily wastewater and lube olls associated 40 CFR Part 60.111a with cleaning equipment and, therefore, does not meet the definition of Petroleum Liquid.	40 CFR Part 60.1118
EQT006 and EQT008 Storage of Volatile	Storage of Volatile Organic Compounds AC 33:112103 B	Does Not Apply	Tanks 11-78 and 13-78 have capacities > 40,000 and store diesel with tvp < 1.5 psla.	LAC 33:III.2103.B
Station No. 2 Tank No. 1 & No. 2	Station No. 2 Tank No. 1 & No. 2 Subpart Ka—Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1884	Does Not Apply		40 CFR Part 60.111a
EQT009, EQT011, EQT013, EQT015, EQT021 - EQT026 Emergency Generator Engines	NSPS for CHICE - 40 CFR 60 Subpart III)	Does Not Apply		40 CFR 60.4200(a)
EQT010, EQT012, EQT014, NSPS for CI-ICE - EQT018, EQT019, and EQT020 40 CFR 80 Subpart IIII	NSPS for CL-ICE -	Does Not Apply	Engines were manufactured prior to applicability date of July 1, 2008 (NFPA, firewater pumps). Additionally, the engines have not been modified or reconstructed after July 11, 2005.	40 CFR 60.4200(s)
EQT016 and EQT017 23-88 & 24-89 Gasoline Tanks	Subpart Kb-Volatile Organic Liquid Storage Vessels (Including Petroleum Liquids) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	Does Not Apply	Tanks 23-88 and 24-88 each have a capacity of 1,000 gallons and, therefore, are not subject to Subpart Kb.	40 CFR 60.110b
LOOP LLC Port Complex	Comprehensive Toxic Air Pollutant Emission Control Program AC 33:III Chanter 51	Does Not Apply	The LOOP Complex is not a major source of toxic air pollutants.	LAC 33:III.5101.A
	Chemical Accident Prevention - LAC 33:III. Chapter 59	Does Not Apply	Applicant does not have on site any of the listed toxic materials in LAC 33:III. Chapter 59 amounts greater than the threshold quantities of this program.	LAC 33:III.Chapter 59
	Chemical Accident Prevention Provisions 40 CFR 68	Does Not Apply	Applicant does not have on site any of the listed toxic materials in 40 CFR 68 amounts greater than the threshold quantities of this program.	40 CFR 68

TABLE 4: EQUIPMENT LIST LOOP, LLC - Port Complex Lafourche Parish, Louislana

Enter each single emission point that routes its emissions to another source (i.e., a control device) or a common stack, or is part of an Emissions Cap. List the emissions source to which each single emission point is routed or the Cap of which the source is a member, if applicable. Consult instructions.

Emission Polat ID No:	Description	Construction Date	Routes to:	Operating Rate/Volume	Applicable Requirement(s)?	able ient(s)?
	9 Salt Dome Cavities, Associated Piping, Pumps, and Brine Strane Reservoir		Clovelly Dome 9 Salt Dome Cavities (12-78)	600 MM bbl/yr	89∤□	№
FOT027	1-99 Tank 6401 (Clovelly Dome)	January 2000	Tank CAP (GRP003)	600,000 bbl	∠Yes	% □
EOT028	2-99 Tank 6402 (Clovelly Dome)	January 2000	Tank CAP (GRP003)	600,000 bbi	√Yes.	°N □
FOT029	3-99 Tank 6405 (Clovelly Dome)	January 2000	Tank CAP (GRP003)	199 000'009	⊴Yes	°N □
FOT030	4-99 Tank 6406 (Clovelly Dome)	January 2000	Tank CAP (GRP003)	199 000'009	√ ¥ es	2
EOT031	6-02 Tank 6409 (Clovelly Dome)	March 2000	Tank CAP (GRP003)	199 000'009	⊡Y 85	% □
FOT032	7-02 Tank 6410 (Clovelly Dome)	March 2000	Tank CAP (GRP003)	600,000 bbl	∑Yes	°R □
FOT033	8-07 Tank 6403 (Clovelly Dome)		Tank CAP (GRP003)	199 000 009		ON
EOTOR	9-07 Tank 6404 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bb1	∠]Y es	°N □
2010	10.07 Tank 6407 (Clovelly Dome)		Tank CAP (GRP003)	199 000 009	√Yes	oN □
20103	11.07 Tank 6408 (Clovelly Dome)		Tank CAP (GRP003)	iqq 000'009	∑Yes	°N □
EOT037	12-07 Tank 6411 (Clovelly Dome)		Tank CAP (GRP003)	199 000 009	ZVes	□ No
FOTO38	13-07 Tank 6412 (Clovelly Dome)		Tank CAP (GRP003)	199 000'009	€ A GR	° N°
FOT039	14-07 Tank 6413 (Clovelly Dome)		Tank CAP (GRP003)	199 000 009	∑Yes	S □
FOT040	15-07 Tank 6414 (Clovelly Dome)		Tank CAP (GRP003)	199 000 009	∑Yes	%
N _H	16-10 Tank 6415 (Clovelly Dome)		Tank CAP (GRP003)	199 000 009		2 □
N HW	17-10 Tank 6416 (Clovelly Dome)		Tank CAP (GRP003)	199 000,009		%
WHW	18-10 Tank 6417 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	. □Yes	% □
NH N	19-10 Tank 6418 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	Se √	°N □
NHW.	20-10 Tank 6419 (Clovelly Dome)		Tank CAP (GRP003)	199 000 009	⊡yes	°N □
NEW .	21-10 Tank 6420 (Clovelly Dome)		Tank CAP (GRP003)	199 000,009	⊡Y es	□ No

24. Emissions Inventory Questionnaire (EIQ) Forms [LAC 33:III.517.D.3; 517.D.6] Complete one (1) EIQ for:

- Each emission source. If two emission sources have a common stack, the applicant may submit one EIQ sheet for the common emissions point. Note any emissions sources that route to this common point in Table 4 of the application.
- Each emissions CAP that is proposed. In general, this applies to each source that is part of the CAP.
- Each alternate operating scenario that a source may operate under. Some common scenarios are:
 - 1. Sources that combust multiple fuels
 - 2. Sources that have Startup/Shutdown max lb/hr emission rates higher than the max lb/hr for normal operating conditions would need an EIQ for the Startup/Shutdown emission rates for those sources
- Fugitive emissions releases. One (1) EIQ should be completed for each of the following types of fugitive emissions sources or emissions points:
 - 1. Equipment leaks.
 - 2. Non-equipment leaks (i.e. road dust, settling ponds, etc).

For each EIO:

- Fill in all requested information.
- Speciate all Toxic Air Pollutants and Hazardous Air Pollutants emitted by the source.
- Use appropriate significant figures.
- Consult instructions.

The EIQ is in Microsoft Word Excel. Click on this link to get to the EIQ form. http://www.deq.louisiana.gov/portal/LinkClick.aspx?link=permits%2fair%2f6-6-07_EIQ.xls&tabid=2758

See Section 3.0

N NA 25. NSR Applicability Summary [LAC 33:III.504 and LAC 33:III.509]

change in the method of operation where the change would be a major source in and of itself. Add rows to each table as necessary. Provide a written explanation of the proposing to permit a physical change or change in the method of operation. It would also apply to existing minor stationary sources proposing a physical change or This section consists of five tables, A-E, and is applicable only to new and existing major stationary sources (as defined in LAC 33:III.504 or in LAC 33:III.509) information summarized in these tables. Consult instructions.

25.A. Project Summary

Ā	Change													
Œ	Post-Project Potential to Emit (TPY)			PM ₁₀ Change:			SO ₂ Change:			NO _x Change:			CO Change:	
Q	Projected Actual Emissions (TPY)		,											
C	Baseline Actual Emissions (over 24-month period)													
B	Pre-Project Allowables (TPY)	1			, AA			γγ			, AA			
A	New, Modified, Affected, or Unaffected*	YYYY - MM/DD/YY			YYYY - MM/DD/YY			YYYY - MM/DD/YY			YYYY - MM/DD/YY			
	Description	24-Month Period: MM/DD/YYYY - MM/DD/YYYY			24-Month Period: MM/DD/YYYY - MM/DD/YYYY			24-Month Period: MM/DD/YYYY - MM/DD/YYYY			24-Month Period: MM/DD/YYYY - MM/DD/YYYY			
	Emission Point 1D	PM ₁₀			SO ₂			NOX			00			

		VOC Change:
YY		
YYYY - MM/DD/YY		
24-Month Period: MM/DD/YYYY - MM/DD/YYYY		
VOC 24-N		

Unaffected emissions units are not required to be listed individually. By choosing not to list unaffected emissions units, the applicant asserts that all emissions units not listed in Table 24.A will not be modified or experience an increase in actual annual emissions as part of the proposed project.

25.B. Creditable Contemporaneous Changes

Contempora	Contemporaneous Period: MM/DD/YYYY - MM/DD/YYYY	'Y - MM/DD/YYYY					
					6	<u></u>	5
		∢	m	C	ŋ	2	L
Emission Point ID	Description	Date of Modification	Pre-Project Allowables (TPY)	Baseline Actual Emissions (over 24-month period)	24-Month Period	Post-Project Potential to Emit (TPY)	Change
PM							
		1				PM ₁₀ Change:	
SO,							
						SO ₂ Change:	
Ċ							
						-	

	NO _x Change:			CO Change:	:			VOC Change:	
				, 					
is Changes		-							
25.B. Creditable Contemporaneous Changes									
25.B. Creditab		00			20%	30	-		

25.C. BACT/LAER Summary

For each source identified as "New" or "Modified" in Section 24.A, complete the following table for each pollutant that will trigger NSR. If LAER is not required per LAC 33:III.504.D.3, indicate such.

_		_	_	_	_	 _	_	
	Description of Control Technology/Work Practice Standard(s)							
	Averaging Period							
	Limitation							
	BACT/LAER							
יייים מיייים	Pollutant							
יייסייייים יייסייייים יייסייייי	Emission Point ID	I OHIL ID						

18

PSD Air Quality Analyses Summary 25.D.

	'	∢	æ	ပ	Ω	ഥ	Œ	5	Н	I	J	*
				ų.	At the Monit	the Monitoring Station		Maximum	Modeled +		Modeled PSD	Modeled PSD Allowable Class
Pollutant	Averaging Period	Preliminary Screening Concentration	Level of Significant Impact	Significant Monitoring Concentration	Monitored Values	Modeling Results	Background	Modeled Concentration	Background Concentration	NAAQS	Increment Consumption	II PSD Increment
		(µg/m³)	(µg/m³)	(μg/m³)	(m/gri)	(m/8m)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)
PM	24-hour		8	01						150		30
2	Annual		-							90	- -	17
SO,	3-hour		25							1300		512
•	24-hour		8	13						365		16
	Annual								:	80		20
, CZ	Annual	i	-	14					:	100		25
8	1-hour		2000	,						40,000	•	•
	8-hour		200	575				i		10,000	•	-
Lead	3-month			0.1						1.5	•	•
NR = Not required.	uired.											

25.E Nonattainment New Source Rev Complete this section only if the proposed This project triggers NNSR review for:	view Offsets [LAC 33:III.517.D.16, LAC 33:III.504.D.4 & 5] 🔯 N/A project triggers Nonattainment New Source Review (NNSR). NO _X □ VOC
NO _x :	
Is the applicant proposing to use internal of	ffsets? Yes No
If not, identify the source of the offsets.	Company:
	Facility/Unit:
	Permit No.:
Is an ERC Bank Application included with Yes No	this application, or has an application already been submitted to LDEQ?
If the ERC application has already been su	bmitted, give the date:
Identify the emissions units from which the	e offsets will be obtained (reference specific Emission Point ID numbers).
VOC:	
Is the applicant proposing to use internal o	ffsets? Tyes No
If not, identify the source of the offsets.	Company:
	Facility/Unit:
	Permit No.:
Is an ERC Bank Application included with Yes No	this application, or has an application already been submitted to LDEQ?
If the ERC application has already been su	bmitted, give the date:
Identify the emissions units from which the	e offsets will be obtained (reference specific Emission Point ID numbers).
document should clearly differentiate between	sure the ERC Bank Application is completed properly. In the case of NO_X , the veen ozone season and non-ozone season actual emissions during the baseline e to indicate if a portion of the reductions are no longer surplus (e.g., due to new o a netting analysis, etc.).
25.F. Economic Impact Answer the following questions. How many temporary jobs will be added a How many permanent jobs will be added	

25.G Notification of Federal Land Manager [LAC 33:III.504.E.1, LAC 33:III.509.P.1] Complete this section only if the proposed project triggers NNSR or PSD.

a. Is the proposed facility or modification located within 100 kilon If Yes, determination of Q/d is not required; skip to the next question									
$Q/d = \frac{PM_{10 \text{ (NEI)}} + SO_{2 \text{ (NEI)}} + NO_{X \text{ (NEI)}} + H_2SO_{4 \text{ (NEI)}}}{Class \text{ I km}} \text{ where:}$	PM _{10 (NEI)} SO _{2 (NEI)} NO _{X (NEI)} H ₂ SO _{4 (NEI)} Class I km	 net emissions increase of PM₁₀^{1,2} net emissions increase of SO₂^{1,2} net emissions increase of NO_X^{1,2} net emissions increase of H₂SO₄^{1,2} distance to nearest Class I Area³ 							
Q/d = + + + +	- -								
If Q/D < 4, proceed to Section 26. If Q/D \geq 4, complete the remainder of this Section.									
b. Has the applicant provided a copy of the application to the Federal Land Manager? Yes No									
c. Does the application contain modeling that demonstrates no ad (AQRVs) in the Class I Area? Yes No	verse impact (on Air Quality Related Values							
d. If Yes, indicate the model used: VISCREEN PLUVU	E II 🗌 CAI	LPUFF Other:4							
e. Has the Federal Land Manager concurred that the proposed pro Yes No If Yes, please attach correspondence.	oject will not a	adversely impact any AQRVs?							
¹ If the net emissions increase of any pollutant is negative, enter "Control of the project did not trigger a netting analysis, use the project incompollutant's significance level. ³ In kilometers. ⁴ Model must be approved by LDEQ and the Federal Land Manager	crease. In this	s case, the value will be less than the							

26. Environmental Assessment Statement (EAS or "IT" Question Responses) [La. R.S. 30:2018] ⊠ Yes □ No

** This section is required when applying for new Part 70 operating permits and/or major modifications. Any applications for these permit types that do not include answers to these questions will not be considered to be administratively complete. ** See Appendix C

For new Part 70 operating permits and/or major modifications, answers to these questions must be provided by the applicant to the local governmental authority and the designated public library at no additional costs to these entities. Consult instructions to determine what is considered to be a "local governmental authority" and a "designated public library". Indicate the name and address of the local governmental authority and the designated public library to which the answers to these questions were sent:

Name of Lo	cal Governi	ng Authority	Name of D	esignated Pul	blic Library				
Lafourche	Parish Coun	cil District 9	Lafourche Parish Publ	ic Library – G	iolden Meadow Branch				
Str	eet or P.O.	Box	St	reet or P.O. I	Box				
	PO Box 183	3	1403	1403 North Bayou Drive					
City	State	ZIP	City	State	ZIP				
Golden Meadow	LA	70357	Golden Meadow	LA	70357-2513				

Answer the following five questions on separate pages using full and complete answers. Include as many pages as necessary in order to provide full and complete answers. This information is required per Louisiana Revised Statutes 30:2018 (La. R.S. 30:2018).

Question 1: Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible? (This question requires the permittee to identify adverse environmental effects, both potential and real.)

Question 2: Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former? (This question requires the permittee to perform a cost-benefit analysis, or at least a quantitative indication of the economic benefits and a qualitative description of the negative impacts expected from the permittee's operation. The latter should come from the answer to Question 1.)

Question 3: Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits? (This question requires the permittee to demonstrate having considered alternate technologies.)

Question 4: Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits? (This is the question that deals directly with siting criteria.)

Question 5: Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing non-environmental benefits? (This question requires the permittee to demonstrate having considered the most stringent techniques for reducing or more efficiently handling waste.)

SECTION 3.0

EMISSIONS INVENTORY QUESTIONNAIRE FOR AIR POLLUTANTS

					State of	tate of Louisiana	F.F.					Date	Date of submittal
			Emissions Inventory	Invent		nnaire (E	Questionnaire (EIQ) for Air Pollutants	Pollutants				å	2010
				LOOP, LLC	LLC Port Cor	mplex - Lafe	Port Complex - Lafourche Parish						
Emission Point ID No.	Z.	Descriptive	Name of the	Emissions	Descriptive Name of the Emissions Source (Alt. Name)	ame)		ddy	Approximate Location of Stack or Vent (see Instructions)	on of Stack or	Vent (see Instru	ictions)	ĺ
(Alternate ID)			Crude Oil Storage Tank CAP	torage Tar	ık CAP		Method		27."U	27 "Unknown"			Dalum NAD27
	_		(Clov	(Clovelly Dome)	₽		UTM Zone	304 15	Horizontal	766300	_ mE ve	Vertical	hundredths
Tempo Subject Item 1D No.	D No.						Longitude	$\ \cdot\ $	8	·•.	. 20		hundredths
GRP003				ŀ	1	i i	- - - -	2 2 2		1 1 1 1 1 1	2000		Derment of Annual
Stack and Discharge	_	or Stack	Height of Stack		Stack Gas Erit	Stack	Stack Gas Flow at	Stack Gas Exit	Normal Operating Time		Date of Construction or	Through	recent of Annual Throughput Through This
Physical Characteristics Change? (yes or no)	Discharge Area (ft')	(ft')	Above Grade (11)		renound	Standa	Standard (ft²/min)	(F)	(hours per year)		Modification	Emi	Emission Point
e	8 /u	¢	, e/u	R P	fVsec	1/a	ñ^3/min	n/a °F	8,760	hr/yr		1	Jul- Sep
		2										25% 25%	% 25% 25%
	Type of Fuel Used and Heat Input (see instructions)	1 and Heat I	nput (see ing	struction	(S)				Operating Parameters (include units)	ameters (inc	fude units)		
	Type of Fuel		Heat I	Heat Input (MMBTU/hr)	1BTU/hr)					Parameter		Desci	Description
a						Z T	ormal Operating	Normal Operating Rate/Throughput					
Ą						<u>~</u>	laximum Operati	Maximum Operating Rate/Throughput	ăt.				
U						<u>디</u>	Design Capacity/Volume	Volume					
		Notes				<u> </u>	Shell Height (ft)				+		
ř	Tank Cap consists of point sources EQT027 - EQT040,	point sources I.	3QT027 - EQT(.040,		<u>-1</u>	Tank Diameter (ft)						
	nrd	pius new tanks (o).					Fixed	Fixed Roof	Floating Roof	of D	External		Internal
Air Pollutent Specific Information	nformation					1							
Emission Point ID No. (Alternate ID)	. (Alternate 1D)	Control	Control	HAP/TAP	TAP				Permitted				
		Equipment Code	Equipment Efficiency	CAS Number	ım per	Propo	Proposed Emission Rates	lates	Emission Rate (Current)	Add, Change, Delete, or	Continuous Compliance	Concent	Concentration in Gases Exiting at Stack
Pollutant					Į į	Average (Ib/hr)	Maximum (lbs/hr)	Annusi (tons/yr)	Annual (tons/yr)	Unchanged			ì
Total VOC (including those listed below)	se listed helow)				1	40.02		175.28	88.39	5			ppm by vol
Benzene				00071-43-2	L	0,23		1.03	068'0	၁			ppm by vol
Cumena				00098-82-8	-	10.0>		0.02	0.021	n			ppm by vol
Cument Eshul benzene				00100-41-4	L	0.03		0.11	0.112	C			ppm by vol
n-Hexane				00110-54-3		0.25		1.07	0.920	U			by by vol
Toluene				00108-88-3		0.13		0.58	0.539	O,			lov vd mqq
(Xvlene (mixed isomers)				V/N#		0.08		0.35	0.364	C			ppm by vol

					State of	State of Louisiana						Date of submittal	
			Emissions l	Invento	ry Question	ınaire (El	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				Dec 2010	0
			-	LOOP, L	LOOP, LLC Port Complex - Lafourche Parish	ıplex - Lafoı	urche Parish	,					
Emission Point 1D No. (Alternate	Mernate	Descriptive	Descriptive Name of the Emissions Source	missions &	Source (Alt. Name)	me)		ddγ	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instruc	tions)	
(QI			Tank 6401 (Clovelly Dome)	Clovelly Do	ome)		Method		27,"Ur	27 "Unknown"		딝	
66-1					(1)		UTM Zone		Horizontal	764302	mE Vertical	3261267 60 hund	Z E
Tempo Subject Item ID No.	D No.						Longitude	• 06 67	16	_	29.		dths
Stack and Discharge Physical Characteristics Change? (ves or no)	Diameter (ft) or Stack Discharge Area (ft ³)	r Stack :n (ft ³)	Height of Stack Above Grade (ft)		Stack Gas Exit Velocity	Stack G	Stack Gas Flow at Conditions, not at Standard (ft ³ /min)	Stack Gas Exit Temperature (*F)	Normal Operating Time (hours per year)		Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point	This
OU.	n/a f		n/a A	l n/a	N/sec	n/a	.5	n/a •F	8,760	hr/yr Jan	2000	Jan- Apr- Jul- Mar Jun Sep 25% 25% 25%	Oct- 25%
		R²									constructed		
É	Type of Fuel Used and Heat Input (see instructions)	and Heat I	nput (see inst	tructions					Operating Parameters (include units)	meters (inc	lude units)	7 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	Ţ
Fuel	Type of Fuel		Heat In	Heat Input (MMBTU/h	RTU/hr)	<u> </u> ;			+	Parameter		Describing	T
æ	r/a					ž T	rmal Operating	Normal Operating Rate/Throughput			+		Ī
۵						<u> </u>	Maximum Operating Rate Design Conscity/Volume	Maximum Operating Rate/Throughput Decion Copacity/Volume	1 n	000 009		bbl	
၁						\ <u>\</u>	Shell Height (ft)				_		
	Under CAP	Under CAP, Revised for RVP 8.	RVP 8.			Ta	Tank Diameter (ft)			310		feet	
						Ц 			i				-
							- Fixed Koot	Koot	Floating Kool		CAICING		
Air Pollutant Specific Information	Alternation	Control	Control	HAP/TAP	d V.				Permitted				
1-99		Equipment Code	<u>ы</u> н	CAS Number	nber	Propos	Proposed Emission Rates	21	Emission Rate (Current)	Add, Change, Delett, or	Continuous	Concentration in Gases Exiting at Stack	368
Pollutant					*	Average	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged			Ī
	the Case of Partners						5252.21		Capped	O		lov yd mqq	y vol
I otal VCC (including mose listed below)	Se listen perow)		+	00071-43-2	3-2	+	30.66		Capped	ပ		lov yd mqq	y vol
Benzene				00098-82-8	2-8		0.23		Capped	C		by vol	y vol
Cultificate Echal herrane				00100414	4		2.03		Capped	C		lov vd mqq	v vol
Tolugae				00108-88-3	8-3		14.93		Capped	ပ		ppm by vol	<u>Ş</u>
Xylene (mixed isomers)				#N/A			5.95		Capped	S) c		lov yd mgg	٥
n-Hexane				00110-54-3	4-3	_	32.94		Capped	0		iov ya mog	

Empire Paris Divas Control Divas Con						State	State of Louisiana	13					Date	Date of submittal
100P, LLC Port Complex * Lafourbe Parish 100P, LLC Port Complex				Emission	s Invent	ory Questi	ionnaire (F	31Q) for Air	Pollutants				De .	
10 10 10 10 10 10 10 10	_				LOOP,	LLC Port C	omplex - La	fourche Parish					_	
1901 1902 1904	Emission Point	ID No. (Alternate		live Name of the	: Emission	s Source (Alt.	Name)		ИV	proximate Locate	ion of Stack or	Vent (see instru	ctions)	
UTM Zace 1 1 1 1 1 1 1 1 1	··· (1D)		Tank 6402	(Clovelly	Доте)		Method	;		Jnknown"			m NAD27
Cantidote Hear Discharge Act of Discharge Control of Discharge Dis	,							UTM Zone	•	Horizontal	Ļ	9	1	261267 mN
EQTO28 Part of Line Part of Li	Tempo Subj	ect Item ID No.						Latitude	63 86	7 =	-1.5	562		
Protect Orange Discharge Discharge	ËC	7T028						•						
Dictarge Area (It)	Stack and Dis	_	meter (ft) or Stack	Height of S	_	Stack Gas Exi		Gas Flow at	Stack Gas Exit	Normal Oper		Date of	Perce	nt of Annual
Type of Fuel Used and Heat Input (See Instructions) Type of Fuel Used and Heat Input (See Instructions) Type of Fuel Used and Heat Input (See Instructions) Type of Fuel Used and Heat Input (See Instructions) Type of Fuel Used and Heat Input (See Instructions) Type of Fuel Used and Heat Input (See Instructions) Type of Fuel Used and Heat Input (See Instructions) Type of Fuel Used and Heat Input (See Instructions) Total Used and Heat Input (Multiple Unit) Total Used and Heat Input (Multiple Unit) Total Used and Heat Input (See Instructions) Total Used Input (See Instructions) Total Used and Heat Input (See Instructions) Total Used Input (See Instruction) Total Used Input (Se	Physical Chars Change? (yes		scharge Area (ft²)	Above Grac	 (ع)	Velocity	Condi	itions, <u>not</u> at ard (ft³/min)	Temperature (°F)	Time (hours per y		nstruction or fodification	I hroughp Emi	ut I hrough I his ssion Point
Type of Fuel Used and Heat Input (See instructions) Type of Fuel Used and Heat Input (MMITUTh) Normal Operating Rate/Throughput Parameters (include units) Design Capacity/Volume Design Capacity/Volume Control Control Control Equipment Cantrol Control Avverage Maximum Maximum Annual Operating Rate/Throughput Control Control Control Cantrol C	2	.,		n/a		E I		ft^3/min		8,760		_	Jan- Mar	Jul- Sep
Type of Fuel Used and Heat Input (MMBTU/hr) Normal Operating RateThroughput Parameter Design Capaciny RateThroughput Parameter Design Capaciny RateThroughput Control Cont												constructed		25%
Design Capacity Violent		Type of F	uel Used and Heat	t Input (see in	nstruction	ns)				Operating Par	ameters (inc	lude units)		
Design Capacity Volume American Decrating Rate/Throughbut Design Capacity Volume Design	1		re of Fuel	Heat	Input (MA	1BTU/hr)					Parameter		Descr	iption
Notes Notes Notes Notes Notes Notes Notes			n/a				<u>-</u>	Vormal Operating	Rate/Throughput					
Notes Note	م							Maximum Operati	ing Rate/Throughp	5				
Tank Diameter (ft) Tank Di	ű							Jesign Capacity/V	/olume		000'009	1	اء	<u>=</u>
Tank Diameter (ft) Tank Diameter (ft) 310 feet			Notes				<u> </u>	shell Height (ft)						
Information Control Control Equipment Equipment Equipment Equipment Equipment CAS Number Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Compliance Code Code			Under CAP, Revised for	or RVP 8.			<i></i> 1	Tank Diameter (ft)			310	-	ا ع	et
Information Fixed Roof Fi								Ì						
Month Control Continuous Control Control							=		Roof	Floating K		External]	
Vo. (Alternate ID) Control HAP / TAP Proposed Emission Rates Proposed Emission Rates Proposed Emission Rates Courtent) Change, Compliance (Current) Capped (Current) Current (Current) Capped (Current)	Air Pollutant	Specific Informati	00											
Equipment Eduipment Eduipment CAS Number Code Proposed Emission Rates Code Code Efficiency Code Compliance Compliance Compliance Compliance Compliance Compliance Compliance Exiting at Maximum Annual (tons/yr) Change, Compliance Compliance Compliance Exiting at Method Compliance Complex C	Emission Pa	int ID No. (Altern	(QI			TAP			_	Permitted Emission Pote	77.4			
Average (IbAhr) Annual (Ions/yr) (Ions/yr) Annual (Ions/yr) <t< td=""><td></td><td>2.99</td><td>Equipmen Code</td><td></td><td></td><td>n Der</td><td>Prop</td><td>osed Emission R</td><td>ales</td><td>(Current)</td><td>Change, Delete, or</td><td>Continuous</td><td>Concent</td><td>ration in Gases ing at Stack</td></t<>		2.99	Equipmen Code			n Der	Prop	osed Emission R	ales	(Current)	Change, Delete, or	Continuous	Concent	ration in Gases ing at Stack
nose listed below) 60071-43-2 30.66 Capped C 00098-82-8 0.23 Capped C 00100-41-4 2.03 Capped C 00108-88-3 14.93 Cupped C #N/A 5.95 Capped C 00110-54-3 32.94 C C	Pollutant		Ţ			Ĺ	Average (Ib/hr)	Maximum (lbs/hr)	Annus! (tons/yr)	Annua! (tons/yr)	Unchanged			
100071-43-2 30.66 Capped C Capped Capped C Capped C	Total VOC	Indian those listed b	(alon)			-		5252.21		Capped	S			lov yd mgg
00098-82-8 0.23 Capped C 00100-41-4 2.03 Capped C 00108-88-3 14.93 Capped C #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	Total voc (inter-	name more mare	, , , ,		000	43.2		30.66		Capped	ပ			ppm by vol
00100-41-4 2.03 Capped C 00108-88-3 14.93 Capped C #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	Deligent				86000	-82-8		0.23		Capped	၁			lov yd mqq
O0108-88-3 14.93 Capped C	Cullelle				8	4 4		2.03		Capped	ပ			lov yd mgg
#N/A 5.95 Capped C 00110-54-3 32.94 Capped C	Ethyl benzene				80108	-88-3		14.93		Capped	Ō			ppm by vol
00110-54-3 32.94 Capped C	V. lene (mixed)	comere)			Z.	<		5.95		Capped	ာ			ppm by vol
	Aylene (Illived	SOURCES!			8	54-3		32.94		Capped	Ö			ppm by vol

					State	State of Louisiana	18					Date	Date of submittal
			Emissions	Invent	tory Ques	tionnaire (Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				Ğ	2010
				LOOP,	LLC Port (Complex - La	LOOP, LLC Port Complex - Lafourche Parish						
Emission Point ID No. (Alternate	Viternate	Descriptiv	Descriptive Name of the Emissions Source	Emission	s Source (Ali	(Alt. Name)		Ιdγ	Approximate Location of Stack or Vent (see instructions)	on of Stack or	Vent (see instruc	tions)	
1D)			Tank 6405 (Clovelly Dome)	(Clovelly	Доше)		Method		27,"U	27,"Unknown"		Datun	7
							UTM Zone		Horizontal	764302		Vertical 32	~1
Tempo Subject Item ID No.	D No.						Latitude	- 20 - 20 -	16	· ,• ,	56		97 hundredths
Stack and Discharge	Diameter (ft) or Stack	r Stack	Height of Stack	\vdash	Stack Gas Exit		Stack Gas Flow at	Stack Gas Exit	Normal Operating	ıting	Date of	Percen	Percent of Annual
Physical Characteristics Change? (yes or no)		ca (ft²)	Above Grade (ft)	<u>(E)</u>	Velocity	Cond	Conditions, <u>not</u> at Standard (ft³/min)	Temperature (°F)	Time (hours per year)		Construction or Modification	Throughpu Emis	Throughput Through This Emission Point
ou	<u> 10/a</u>	æ	n/a	# e ²	a fl/sec	υς 10/a	ft^3/min	n/a °F	8,760	hr/yr Jan	2000	Jan- Apr- Mar Jun	- Jul- Oct-
		ft²								3	constructed	-	: :
É	Type of Fuel Used and Heat Input (see instructions)	and Heat	Input (see ins	struction	ns)				Operating Parameters (include units)	ameters (inc	ude units)		
Fuel	Type of Fuel		Heat I	Heat Input (MMBTU/b	MBTU/hr)					Parameter	-	Description	ption
n	n/a						Normal Operating Rate/Throughput	Rate/Throughput		1			
ρ						<u>-</u> Т	Maximum Operati	Maximum Operating Rate/Throughput	j				
၁						<u>-</u> 1	Design Capacity/Volume	/olume		000,009		PPI	
	!	Notes				<u> </u>	Shell Height (ft)						
	Under CAP	Under CAP; Revised for RVP 8.	RVP 8.			- 1.	Tank Diameter (ft)			310		Ice	
	•						☐ Fixed Roof	Roof	Floating Roof	of 🖾	External	0	Internal
Air Pollutant Specific Information	nformation												
Emission Point ID No. (Alternate ID)	<u>a</u>	Control		HAP / TAP	'TAP				Permitted				•
3-99		Equipment Code	Efficiency	CAS Number	- Dec	Ргор	Proposed Emission Rates	ates	(Current)	Add, Change, Delete, or	Continuous Compliance	Concentr	Concentration in Gases Exiting at Stack
Pollutant					<u> </u>	Average (Ib/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Domaia		
Total VOC (including those listed below)	se listed below)				-		5252.21		Capped	၁			ppm by vol
Renzene				00071-43-2	43-2		30.66		Capped	၁			ppm by vol
Cumene				00098-82-8	-82-8		0.23		Capped	C			ppm by vol
Ethyl henzene				00100414	4 4		2.03		Capped	C			ppm by vol
Toluene				00108-88-3	-88-3		14.93		Capped	C			ppm by vol
Xylene (mixed isomers)				V/N#	/A		5.95		Capped	٥			lov vd mdd
n-Hexane				00110-54-3	-54-3		32.94		Capped	S			lov vd mag

					Ctata	Ctoto of Louisiano						Da	Date of submittal	_
					State								_	
			Emissions	Invento	ory Questic	onnaire (E	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				<u>ස</u> 	c 2010	<u> </u>
				LOOP, 1	LLC Port Co	mplex - Lafc	LOOP, LLC Port Complex - Lafourche Parish							
Emission Point 1	Emission Point ID No. (Alternate	Descriptiv	Descriptive Name of the Emissions Source (Alt. Name)	missions	Source (Alt. N	(ame)		App	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instru	ictions)		
	<u> </u>		Tout 6406 (Closelly, Dome)	T. Stanton) cme)		Method		J7,72	27,"Unknown"		Õ	Datum NAD27	
4	4-99		Tank Own	Cloveiny L	Joine)		UTM Zone		Horizontal	764302	mE Ve	Vertical	3261267 mN	Nm.
Tempo Subje	Tempo Subject Item ID No.						Latitude	8 8	91		29	1		edths
EQ1	ЕОТ030						, 						1	
Stack and Discharge		Diameter (ft) or Stack	Height of Stack	<u> </u>	Stack Gas Exit		Stack Gas Flow at	Stack Gas Exit	Normal Operating Time		Date of Construction or	Perc Through	Percent of Annual Throughput Through This	This
Change? (yes or no)		Discharge Area (ft-)	2004	<u> </u>	function.	Standa	Standard (ft²/min)	Ð	(hours per year)		Modification	<u>.</u>	Emission Point	-
2	n/a	¥	n/a ft	ر <u>م</u> ام	fVsec	17/8	ft^3/min	n/a °F	8,760	hr/yr Jan	2000	Jan- Mar	\vdash	je o
		. H ²								•	constructed	7	 	25%
	Type of Fuel	Type of Fuel 1 sed and Heat Input (see instructions)	nout (see ins	truction	(E)	- -			Operating Parameters (include units)	meters (inc	lude units)			
	Type of Eucl	Euel	Heat In	Heat Input (MMBTU/hr)	(BTU/hr)	<u>Г</u>				Parameter		Des	Description	
r uc	8/u					ĮŽ.	ormal Operating	Normal Operating Rate/Throughput				l		
۵						Σ.	aximum Operati	Maximum Operating Rate/Throughput	5					
<u>၂</u>						<u>a</u>	Design Capacity/Volume	/olume		000,000			laa	Ţ
		Notes				<u>8</u>	Shell Height (ft)							T
	Unde	Under CAP, Revised for RVP 8.	RVP 8.			Ĕ	Tank Diameter (ft)	7	_	310			Icat	
								0.00	Floating Roof	<u>-</u>	Fytemal		Inte	Internal
3						-	L FIXEG ROOI	ROOI	N SILINGE					
AIT POUNTANT	AIF POURTENT Specific Information	-		UAD / TAD	TAB				Permitted					
Emission Poi	Emission Point ID No. (Alternate ID)	-	Fauinment	CAS Number	The state of the s				Emission Rate	Add.	(
	4-99	Code		CAS in		Propo	Proposed Emission Rates	ates	(Current)	Change, Delete, or	Continuous	Conce	Concentration in Gases Exiting at Stack	9363
Pollutant		Ţ			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Average	Maximum (lbs/bc)	Annual	Annual	Unchanged	Method		ı	••
					1	+	\$252.21		Capped	S			h mdd	ppm by vol
Total VCC (Incit	Total VCK (including those listed below)			7.57	43.2		30.66		Capped	O			h mdd	ppm by vol
Benzene		+		00008-82.8	87.8		0.23		Capped	S			bpm b	ppm by vol
Ситепе		+		7 7 00100		\dagger	2.03		Capped	S			lov yd mgg	by vol
Ethyl benzene				00100	1 20		14 93		Capped	Ü		_	ppm t	ppm by vol
Toluene		+		4/N#	000		5.95		Capped	٥			lov yd mqq	by vol
Xylene (mixed isomers)	omers)			00110-54-1	1.45		32.94		Capped	J.			ppm by vol	by vol
n-Hexane				2					2					

					State	State of Louisiana	22					Date	Date of submittal
<u> </u>			Emissions Inventory Que	Invent	Inventory Questi	ionnaire (1	stionnaire (EIQ) for Air Pollutants (Complex - Lafourche Parish	Pollutants				Dec	2010
Emission Point 3	Emission Point ID No. (Alternate	Descriptiv	Descriptive Name of the Emissions Source (Alt. Name)	Emissions	Source (Alt.	Name)		Apr	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instru	ctions)	
â		•										•	
	6-02		Tank 6409	Tank 6409 (Clovelly Dome)	Dome)		Method UTM Zone		Horizon	nknown" 764302		Vertical 32	지질
Tempo Subje	Tempo Subject Item ID No.						Latitude	26	72		. 01		60 hundredths 97 hundredths
EOT031	1031						2000						
Stack and Discharge	_	Diameter (ft) or Stack	Height of Stack	_	Stack Gas Exit	_	Stack Gas Flow at	Stack Gas Exit	Normal Operating		Date of	Percen	Percent of Annual
Physical Characteristics Change? (yes or no)		Discharge Area (ft²)	Above Grade (ft)	(3)	Velocity	Cond	Conditions, not at Standard (ft³/min)	Temperature (°F)	Time (hours per year)		Construction or Modification	Throughpu Emis	Throughput Through This Emission Point
000		¢.	7/a	ft n/a	fl/sec		.5	n/a °F	8,760	hr/yr Mar	2000	Jan- Mar	Jul. Sep
		~# 				<u> </u>				ŏ	constructed	25% 25%	6 25% 25%
	Type of Fue	Type of Fuel Used and Heat Input (see instructions)	Input (see in:	struction	(8)	-			Operating Parameters (include units)	meters (incl	ude units)		
3	Type	Type of Fire	Hear	Heat Input (MMBTU/hr)	1BTU/hr)	<u>. </u>				Parameter		Description	ption
	u	n/a				<u></u>	Vormal Operating	Normal Operating Rate/Throughput					
۵						_	Maximum Operati	Maximum Operating Rate/Throughput	ıı ı				
Ü							Design Capacity/Volume	/olume		000,009		199	_
		Notes					Shell Height (ft)						
	_u U	Under CAP, Revised for RVP 8.	r RVP 8.				Tank Diameter (ft)			310	_	feet	**
						1							-
							Fixed	Fixed Roof	Floating Roof	ور اور	External		Internal
Air Pollutant S	Air Pollutant Specific Information												
Emission Poi	Emission Point ID No. (Alternate ID)	(ar		HAP/TAP	TAP				Permitted Emission Rate	77.4			
	6-02	Equipment Code	Efficiency	CAS Number		Ргор	Proposed Emission Rates	ates	(Current)	Change, Delete, or	Continuous	Concentr	Concentration in Gases Exiting at Stack
Pollutant		Ţ			<u> </u>	Average (Ib/br)	Maximum (lbs/br)	Annual (tons/vr)	Annual (tons/yr)	Unchanged	nomata		
T-4-1 1000	Aurolad hatail anode saibulant / OOM 1-a-T	(1)			+		5252.21		Capped	C			ppm by vol
Dental vec (men	מוווול מוספר וופנים ניציו	,,,,,		0007143-2	43-2		30.66		Capped	S			ppm by vol
Dellaciie				00098-82-8	82-8		0,23		Capped	2			ppm by vol
Cumeric				41800100	Ž 14		2.03		Capped	Ú			ppm by vol
cthyl benzene				3	,		14.03		Canned	C			lov yd maa
Toluene				00108-88-3	2-00-		\$ 05		Canned) U			lov vd maa
Xylene (mixed isomers)	omers)	+		V/NI#			13.04		Danna				lov vd mad
n-Hexane				00100	2-12-		75.75						

Emission Note Parcel Par						State of	e of Louisiana						Date	Date of submittal
Descriptive Name of the Emissions Source (Alt. Name) Approximate Location of Stack or Vertice instructions) Tank 6410 (Clovelly Done) Tunk 6410 (Tunk) Tunk				Emissions	Invento	ry Question	ınaire (El	Q) for Air l	Pollutants				Dec	2010
Pestriptive Name of the Emissions Source (Alt Name) Permission Source (Alt Name)					LOOP, L	J.C Port Con	ıplex - Lafo	urche Parish						
100 100	Emission Point	ID No. (Alternate	Descriptiv	e Name of the	Emissions :	Source (Alt. Na	іше)		ldv	proximate Locat	ion of Stack or	Vent (see instru	ctions)	
Value Valu	7	D)		Tank 6410	(Clovelly D.	оше)		Method		27,"(Jnknown"		Datu	m NAD27
Cardiolog Discharge Area (f) Above Crade	,	70				Ì		UTM Zone	٥٤	Horizontal	764302	9	1	261267 mN 50 hundredths
Political Color	Tempo Subje	et Item ID No.						Latitude	. 8	7 -	اوراً.	29		
Condition, 1912 Distuicure (in or Stack) E0	T032						·			 - -			
Dictarge of Fine Dictarge of	Stack and Dis	L	eter (ft) or Stack	Height of S		tack Gas Exit	Stack G	as Flow at	Stack Gas Exit	Normal Oper		Date of	Percen	of Appendal
100 100	Physical Chara Change? (yes		harge Area (fi ²)	Above Grad	<u> </u>	Velocity	Standar	ons, <u>not</u> at d (ft ³ /min)	(F)	(hours per)	-	Todification	Emis	sion Point
Type of Fact Used and Heat Input (See instructions)	og.					fl/sec	n/a			8,760		_	Jan- Mar	Jul- Sep
Type of Fuel Used and Heat Input (MMBTU/hr) Normal Operating Rate*Throughbut Parameters (include units)											-[constructed		25%
Design Capacity Violume Perameter Perameter Description Perameter Description Design Capacity Violume Design Vi		Type of Fu	el Used and Heat	Input (see in	structions	(1)				Operating Par	rameters (inc	lude units)		
2		Tyne	of Fuel	Heat	nput (MM)	BTU/hr)		'			Parameter	_	Descri	ption
Notes Note	R		л/в				Įž	rmal Operating	Rate/Throughput					}
Notes Note	ه						Ÿ.	ximum Operatit	ng Rate/Throughp	ut I				
Tank Diameter (ft) Tank Di	ပ						<u>의</u>	sign Capacity/V	olume		900,009		Ξ	le
Under CAP, Revised for RVP 8. Tank Diameter (ft) 1910 191			Notes				-ks	ell Height (ft)						
Maximum Sing those listed below) Control Control Control Control Control Control Code HAP / TAP Equipment Eduipment Code Froposed Emission Rates Current) (Current) Control Control Code Froposed Emission Rates (Current) Control Code Froposed Emission Rates (Current) Control Current) Code Code Continuous Contentration Control Current) Control Current Current Current Code Add, Continuous Contentration Control Current Curren		ວັ	nder CAP; Revised for	r RVP 8.			<u>-</u>	nk Diameter (ft)			310		2	5
Fixed Roof Floating Koof Editional Location External Location Emission Rate Rates Permitted Add, Courtent) Continuous Courtent Continuous Courtent Continuous Courtent Compliance Exiting at Extiting at Courtent Extiting at Extiting at Extiting at Courtent Extiting at Extit												-	ָ 	
On Point ID No. (Alternate ID) Control Equipment Control Equipment CAS Number Proposed Emission Rates Proposed Emission Rates Permitted Add. (Current) Continuous (Current) Capped C<			į						Roof	Floating K		External	7	
On Point ID No. (Alternate ID) Control Control Equipment CaS Number Cas Number Cas Number Proposed Emission Rates Femission Rates Femission Rates Continuous Continuous Compiliance C	Air Pollutant	Specific Information												
Tole Equipment Equipment	Emission Po	int ID No. (Alternate			L/dyH	[AP				Fermitted				
C (including those listed below) Average (1bAr) Maximum (1nsAyr) Annual (1onsAyr) Ann		7-02	Equipment Code		CAS Nu		Propos	ted Emission Ra	ntes	(Current)		Continuous Compliance	Concent	ration in Gases ng at Stack
C(including those listed below) 00071-43-2 30.66 Capped C cene 00098-82-8 0.23 Capped C cene 00100-41-4 2.03 Capped C icene 00108-88-3 14.93 Capped C ixed isomers) #N/A 5.95 Capped C ixed isomers) 0010-54-3 32.94 Capped C	Pollutant		Ţ			* =	erage Vhr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged			
cene 00071-43-2 30.66 Capped C cene 00098-82-8 0.23 Capped C cene 00100-41-4 2.03 Capped C ixed isomers) 60108-88-3 14.93 Capped C ixed isomers) 6010-54-3 32.94 Capped C	Total VOC (incl	ding those listed bel	(200			1		\$252.21		Capped	2			ppm by vo
cene 00098-82-8 0.23 Capped C ixed isomers) 00100-41-4 2.03 Capped C ixed isomers) #N/A 5.95 Capped C ixed isomers) #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	Don't include	an marcin acous Guinn			00071-4	13.2	-	30.66		Capped)			ppm by vo
cene 00100-41-4 2.03 Capped C ixed isomers) #N/A 14.93 Capped C ixed isomers) #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	Ciliania				8-86000	12-8	-	0.23		Capped	C			ppm by vo
ixed isomers) 00108-88-3 14.93 Capped C C (Cumente				00100	4	 	2.03		Capped	S			ppm by vo
ixed isomers) #N/A 5.95 Capped C (20110-54-3) 32.94 Capped C	Toluene				8-80108	18-3	-	14.93		Capped	S			ov vd mqq
00110-54-3 32.94 Capped C	Xvlene (mixed i	comers)			V/N#			5.95		Capped	ပ			ppm by vo
	a Herre (minus	/6121100			00110-5	:4-3		32.94		Capped	C			ov yd mdg

(i) (i) or (ii) or (iii) or (i	plive	Emissions Inventory Questionnaire (EIQ) for Air Pollutants LOOP, LLC Port Complex - Lafourche Parish	Questionnair	e (EIQ) for Air	Pollutants				
empo Subject Item ID No. (Alternate B-07 EQT033 EQT033 Ick and Discharge Diameter (ft) or iteal Characteristics Ind Type of Fuel Used a Type of Fuel Used a Type of Fuel be compared by the compared by the compared by the company of the compan	plive	LOOP, LLC F		:					Dec 2010
sion Point ID No. (Alternate 1D) 8-07 EQT033 Ick and Discharge ited Characteristics In/a Type of Fuel Used a Type of Fuel Used Discharge Area Type of Fuel Under CAP; Pollutant Specific Information	Tank 640 Tak 640 Tak 640		ort Complex -	LOOP, LLC Port Complex - Lafourche Parish					
mpo Subject Hen EQT033 rek and Discharge sical Characteristi nange? (yes or no) no c c b b c c c c		e Emissions Sourc	e (Alt. Name)		App	Approximate Location of Stack or Vent (see instructions)	of Stack or Ver	nt (see instruci	tions)
EQT033 tck and Discharge iteal Characteristic ange? (yes or no) no no poliutant Specifit	<u> </u>	Tank 6403 (Clovelly Dome)		Method UTM Zone		27, "Unknown" Horizontal 7643	known" 764302 mE	1	Datum N 32612
EQ1033 rck and Discharge iteal Characteristi isange? (yes or no) no c c c	-			Latitude	90	16	1 1	. 62	60 hundredths 97 hundredths
no no constitution of constitu	_	Stark Cast	Frit	Stack Cas Flow at	Stack Gas Exit	Normal Operating		Date of	Percent of Annual
no a b c c Pollutant Specific				Stack Cass riow at Conditions, <u>not</u> at Standard (ft ³ /min)	Temperature (%F)	Time (hours per year)		Construction or Modification	Throughput Through This Emission Point
a b c c	n/a	ft n/a	fl/sec	.5	л/а °F	4 092'8	hrlyr	- 	Apr- Jul- Jun Sep
a b c c							con	constructed	75% 75% 75% 75%
a b c c c c c c c c c c c c c c c c c c	d Heat Input (see i	nstructions)				Operating Parameters (include units)	neters (includ	le units)	
a b c Pollutant Specific Informati	Heat	Heat Input (MMBTU/hr)	<u>f</u>				Parameter		Description
c Noder CAP; ReAir Pollutant Specific Information				Normal Operating	Normal Operating Rate/Throughput				
Under CAP; Re				Maximum Operati	Maximum Operating Rate/Throughput	<u> </u>			
No Under CAP; Re Air Pollutant Specific Information				Design Capacity/Volume	/olume		900,009	1	100
Under CAP, Re Air Pollutant Specific Information	Notes			Shell Height (ft)				1	
	Under CAP; Revised for RVP 8.			Tank Diameter (ft)			310		Icel
				C.	Pard Doof	Floating Roof	Ē	External	Internal
						0			
Emission Point ID No. (Alternate ID)	_	<u> </u>				Permitted	 :		
8-07 Equ	Equipment Equipment Code Efficiency	CAS Number		Proposed Emission Rates	ates	(Current)	Aud, Change, Delete, or	Continuous	Concentration in Gases Exiting at Stack
Pollutant			Average	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	no mark	
Total VOC (including those listed below)	-			\$252.21		Capped	C		lov yd mgg
Total VCC (Highwing Hose Hard Cook)		00071-43-2	1	30.66		Capped	ာ		ppm by vol
Cimens		00098-82-8		0.23		Capped	Ö		ppm by vol
Cullean		00100-41-4		2.03		Capped	С		lov yd mgg
Ethyl benzene Tolliene		00108-88-3		14.93		Capped	၁		lov yd mgg
(Xylene (mixed isomers)		V/N#		5.95		Capped	O		ppm by vol
Aytelle (mixed bonneig)		00110-54-3		32.94		Capped	Ç		lov yd mdd

					State of	State of Louisiana	a					Date	Date of submittal
_			Emissions	Invent	ory Questio	nnaire (E	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				2	2010
				LOOP,	LOOP, LLC Port Cor	nplex - Laf	Complex - Lafourche Parish						
Emission Point	Emission Point ID No. (Alternate	Descriptiv	e Name of the	Emissions	Descriptive Name of the Emissions Source (Alt. Name)	ame)		₩	Approximate Location of Stack or Vent (see instructions)	on of Stack or	Vent (see instru	ıctions)	
= 3.	1D)		Tank 6404 (Clovelly Dome)	(Clovelly I	Jome)		Method		27,72	27, "Unknown"			
							UTM Zone	15	Horizontal	764302	THE Ve	Verlical	3261267 mN 60 hundredths
Tempo Subje	Tempo Subject Item ID No.						Longitude		, 91		29		
EQ.	EQT034											,	
Stack and Discharge	L	Diameter (ft) or Stack	Height of Stack		Stack Gas Exit	Stack (Stack Gas Flow at	Stack Gas Exit	Normal Operating		Date of	Percen	Percent of Annual
Physical Characteristics Change? (ves or no)		Discharge Area (ft²)	Above Grade (ft)	(£)	Velocity	Condi	Conditions, <u>not</u> at Standard (ft ³ /min)	Temperature (°F)	Time (hours per year)		Construction or Modification	I hroughpr Emis	I hroughput I hrough I his Emission Point
												-	-inr
ou	n/a	u	r/a (ft n/a	fl/sec	n/a	ft^3/min	n/a °F	8,760	- hr/yr	_	Mar Jun 25% 25%	1 Sep Dec 6 25% 25%
		F2									constructed		
_	Type of Fuel	Type of Fuel Used and Heat Input (see instructions)	Input (see ins	struction	(5)	-			Operating Parameters (include units)	ameters (incl	ude units)		
1413	Type of Fire	Fuel	Heat l	Heat Input (MMBTU/hr)	IBTU/hr)	J				Parameter		Description	ption
e e	a/u					ız	ormal Operating	Normal Operating Rate/Throughput					1
ф						<u>×</u>	laximum Operati	Maximum Operating Rate/Throughput	=				
J.							Design Capacity/Volume	/olume		000'009		lad	10
		Notes				Š	Shell Height (ft)						
	Unde	Under CAP, Revised for RVP 8	RVP 8.			<u>⊢</u>]	Tank Diameter (ft)			310		feet	ម
											-		
	;						- Fixed	Fixed Roof	Floating Roof	οţ	External	7	Internal
Air Pollutant S	Air Pollutant Specific Information								, u				
Emission Pol	Emission Point ID No. (Alternate ID)		_	HAP/TAP	TAP				Fraission Rate	P 4			
	6-07	Equipment	Efficiency	CAS Number		Prope	Proposed Emission Rates	ates	(Current)	Change,	Continuous		Concentration in Gases
-						ļ				Delete, or	Method		Exiting at Stack
Pollutant						Average (3b/hr)	Maximum (Ibs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged			
Trees VOC (neck	Total WOC (including those listed below)	5					5252.21		Capped	၁			ppm by vol
Then were (men	name mose mass and			00071-43-2	43-2		30.66		Capped	C			ppm by vol
Cumenc				00098-82-8	82-8	-	0.23		Capped	C			ppm by vol
Culticate				41400100	4.4	-	2.03		Capped	о Д			ppm by vol
Ethyl benzene				00108-88-1	88-1		14.93		Capped	၁			loy yd mdg
loluene	(2007)			#N/A		† ·	5.95		Capped	O			ppm by vol
Aylene (mixed isomers)	(omers)	-		00110-54-3	54-3	-	32.94		Capped				ppm by vol
n-Hexane													

					State of 1	State of Louisiana						Date	Date of submittal
			Emissions	Inventor	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	naire (E10	Q) for Air	Pollutants				<u>6</u>	2010
				LOOP, LI	LOOP, LLC Port Complex - Lafourche Parish	plex - Lafou	rche Parish	'					
Emission Point 1D No. (Alternate	Aternate	Descriptive	Descriptive Name of the Emissions Source	Emissions S	Source (Alt. Name)	me)		γbp	Approximate Location of Stack or Vent (see instructions)	n of Stack or	/ent (see instru	ctions)	
1D)			Tank 6407	Tank 6407 (Ctovelly Dome)	эшс)		Method		27,"U	27,"Unknown"	ŀ	- [2
(A-6)							UTM Zone	51	Horizontal	764302	mE ve	Vertical 32	3261267 mN 60 hundredths
Tempo Subject Item ID No.	D No.						Latitude	.06	91		53		
EQT035	Diameter (ft) or Stack	r Stack	Height of Stack	┡	Stack Gas Exit	Stack Ga	Stack Gas Flow at	Stack Gas Exit	Normal Operating	gup	Date of	Регсеп	Percent of Annual
Stack and Discharge Physical Characteristics Change? (yes or no)	Discharge Area (ft²)	es (ft)	Above Grade (ft)		Velocity	Conditio Standard	Conditions, not at Standard (ft³/min)	Temperature (F)	Time (hours per year)		Construction or Modification	Throughpu Emiss	Throughput Through This Emission Point
22	<u>n/a</u> f	¢:	17/a	r I	f/sec	n/a	ft^3/min	n/a • :	8,760	hr/yr		Jan- Apr- Mar Jun 25% 25%	Jul- Oct- Sep Dec 25% 25%
		ft²									constructed		
	Type of Fuel Used and Heat Input (see instructions)	and Heat I	Input (see in:	structions)					Operating Parameters (include units)	ameters (inc	ude units)		
	Type of Fuel		Heat I	Heat Input (MMBTU/hr)	3TU/hr)					Parameter		Description	otion
a	r/8					Zoz	mal Operating	Normal Operating Rate/Throughput					
q						M.	ximum Operati	Maximum Operating Rate/Throughput	<u> </u>	00000		143	
<u>.</u>							Design Capacity/Volume	/olume		000,000	1	an	
		Notes				She	Shell Height (ft)			9	1		
	Under CAP	Under CAP, Revised for RVP 8.	RVP 8.			a ⊢	Tank Diameter (ft)			310		1001	
							Fixed Roof	Roof	Floating Roof	of	External	0	Internal
opine Dellucture Specific Information	formation						l						
Emission Point ID No. (Alternate ID)	(Alternate ID)	Control		HAP / TAP	AP.				Permitted Grainering Date	77.4			
10-01		Equipment Code	Efficiency	CAS Number	nper -	Propose	Proposed Emission Rates	ates	(Current)	Change, Delete, or	Continuous	Concentr	Concentration in Gases Exiting at Stack
Pollutant					*	Average (Ib/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	- Mellion		
ode acibudaci) OOM 1-4-T	re listed below)				 - 		5252.21		Capped	O			ppm by vol
Total VCC (illetuding those listed colors)	oc Hated Octory			00071-43-2	3.2		30.66		Capped	ے ا			ppm by vol
Denzene Circus				00098-82-8	2-8		0.23		Capped	၁			ppm by vol
Cumene Tokul komana				00100414	4	-	2.03		Capped	S			ppm by vol
Ethyl benzene Toluene				00108-88-3	8-3		14.93		Capped	٥	į		ppm by vol
Xylene (mixed isomers)				V/N#			5.95		Capped	١			bpm by vol
n-Hexane				00110-54-3	4-3		32.94		Capped	ا			iox ka iiidd

					State of Louisiana	ouisiana						^	Date of submittal	a
			Emissions 1	Inventor	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	naire (EIC	2) for Air I	Pollutants				-	Dec 20	2010
				LOOP, LI	LOOP, LLC Port Complex - Lafourche Parish	lex - Lafou	rche Parish							
Emission Point ID No. (Alternate	Iternate	Descriptive	Descriptive Name of the Emissions Source	missions S.	ource (Alt. Name)	ie)		Vpp	roximate Locat	ion of Stack o	Approximate Location of Stack or Vent (see instructions)	(ructions)		
(QI			7.21. 6408 (of Alleron	(4		Method		27.	27,"Unknown"			Datum NAD27	,
11-04			Lank 0408 (Clovelly Lyonic)	Cioveny Lo	uic)		UTM Zone	15	Horizontal	764302	mE _	Vertical	3261267	67 mN
Tempo Subject Item ID No.	D No.						Latitude	. 06		, <u>9</u>	29			hundredths
EQT036			11.1.	ŀ	alt Case Basis	Stock C.	Stark Cas Flow at	Stack Gas Exit	Normal Operating	ratine	Date of	Ľ	Percent of Annual	_
Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ff) or Stack Discharge Area (ft ²)	r Stack :a (ft³)	Height of Stack Above Grade (ft)	-	Velocity	Condition Standard	_	Temperature (°F)	Time (hours per year)		Construction or Modification		Throughput Through This Emission Point	h This
ou Ou	n/a ft		n/a ft	1/8	fVsec	17/8	ft^3/min n	n/a •F	8,760	hr/yr		Jan- Mar	Apr- Jul- Jun Sep	Oct- Dec
	Œ	ft²									constructed	£3%		22.0
	Two of Engl Head and Heat Input (see instructions)	and Heat	'nout (see inst	tructions					Operating Parameters (include units)	rameters (in	clude units)			
	Time of Find		Heat In	Heat Janut (MMBTI/hr)	TII/hr)				_	Parameter		1	Description	
an L	1/0					Z	mal Operating F	Normal Operating Rate/Throughput						
م						Σ	rimum Operatin	Maximum Operating Rate/Throughput	_				Ī	
S.						23	Design Capacity/Volume	olume		000,009			199	
		Notes				She	Shell Height (ft)						i	7
	Under CAP;	Under CAP, Revised for RVP 8.	RVP 8.			Tan	Tank Diameter (ft)		-	310			je je	
											1		0	Internal
							Fixed Kool	Kooi	Floating Kool	100	CANCILLA			
Air Pollutant Specific Information	nformation								Dermitted	-		_		
Emission Point ID No. (Alternate 1D)		Control Fouinment	Control	HAP/TAP CAS Number	A.P.	ſ			Emission Rate	Add,	Continuous			
11-02		Code			<u> </u>	ropos	r roposed Emission wates		(Current)	Change, Delete, or			Concentration in Gases Exiting at Stack	Sases
Pollutant					Average	-	Maximum (lbs/hr)	Annual (tons/vr)	Annual (tons/vr)	Unchanged				
			†				16 6565		Capped	U	 -		. mdd	ppm by vol
(Total VOC (including those listed below)	se listed below)		†	0.51 43.2	5	╁	30.66		Capped	O	-		wdd	ppm by vol
Benzene	1		†	9 00 00 00	, 0		0.23		Capped	O	-	-	uidd	ppm by vol
Ситепе				60100	,,,		203		Canned	O 	-	_	uidd	ppm by vol
Ethyl benzene				20100	,		20 71		Canned	Û		-	mdd	ppm by vol
Toluene			†	WINA		+	\$ 95		Capped	J			mdd	ppm by vol
Xylene (mixed isomers)				00110-54-3			32.94		Capped	C		_	mdd	ppm by vol
n-Hexanc	7			2										

12-07 Track 6411 (Clovelly Dome) Track	Descriptive Name of the Emissions Inventory State of Lougistans Patrice (ELO) for Air Pollutants Descriptive Name of the Emissions Source (Air Name) COOP, LLC Port Complex - Lafourche Parish Above Carde (Air Name) COOP, LLC Port Complex - Lafourche Parish Above Carde (Air Name) Coop Coop Above Carde (Air Name) Above Carde					l	Ö							Date	Date of submittal	_
Descriptor Name of the Emissions Inventory Questionnaire (EtQ) for Air Pollutants Parish Parish	Emissions Inventory Questionnaire (ELO) for Air Pollutants						State	or Louisia	25						_	
Tank 64 11 Closelly Done Tank 64	Tank 641 Chockly Dours Face F				Emissions	Invento	ory Quest	ionnaire (EIQ) for Aiı	r Pollutants				Dec	_	10
Tank 641 Closelly Dome Tank 642 Closelly Dome Tank Case Tank 642 Closelly Dome Tank Case T	Precipite Name of the Emission Source (Alt Name) Method					LOOP, 1	LLC Port C	omplex - La	fourche Parish	_				_		
1971 1972	1207 1207	Emission Point ID No.		Descriptive	Name of the l	Emissions	Source (Alt.	Name)		Αρ	proximate Location	n of Stack or	Vent (see instruc	ctions)		
United Disease Disea	Complete Complete	(<u>a</u>			Tank 6411	Clovelly)ome)		Method		27,"Un			Datu	m NAD27	
Campaine Campaine	Continue Discharter Disch	10-71				(100.010)			UTM Zor	۶	Horizon	22	9	-l -	1261267 n	Z a
Equipment Dickarge Dickarge	E-Cyto2)	Tempo Subject Item	ID No.						Latitude		, 91		50.			edths
	Construction Cons	EQT037							0							
Notes Note Notes Note Notes Note Notes Note Note Notes Note Notes Note Notes Note Notes Note Notes Note Notes Notes	1	Stack and Discharge Physical Characteristic		Stack (ft²)	Height of St Above Grade		tack Gas Exi Velocity		t Gas Flow at litions, <u>not</u> at	Stack Gas Exit Temperature	Normal Opera		Date of	Percei Throughp	nt of Annua ut Through	ı This
1	Type of Fuel Used and Heat Input (See instructions)	Change? (yes or no))					Stand	lard (ft³/min)	€	(hours per yes				ssion roint	
Type of Fuel Used and Heat Input (See instructions) Perating Parameters (Include units) Perating Parameters (Include units)	Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Used Fuel Hist Input (see instructions) Type of Fuel Under CAP. Revised for RVP 8.	0t					U/sec				1	hr/yr		-+	-+	Sec 5
Type of Fuel Used and Heat Input (MMBTU/hr) Normal Operating Rate/Throughput Parameters (include units)	Type of Fuel Used and Heat Input (see instructions) Normal Operating Raid-Throughput Parameters (Include units) Description		# # 7							•		٩	onstructed			
Pollutani Specific Information	Type of Field High High High High High High High High		Type of Fuel Used an	nd Heat It	nput (see ins	structions	<u>s</u>				Operating Para	meters (incl	ude units)			
Design Capacity Rate Throughput Design Capacity Rate Design Rat	Decign Figure F		Type of Fuel		Heat It	nput (MM	BTU/hr)	 []				Parameter		Descr	iption	
Design Capacity/Volume Design Capacity/Vol	Design Capacific Information Notes Notes		n/a						Normal Operatin	g Rate/Throughput	<u> </u>		1			T
Under CAP, Revised for RVP 8. Shell Height (ft) Shell Height	Under CAP: Revised for RVP 8. Shell Height (1)	q						1	Maximum Opera	ting Rate/Throught	int	000 000	1			T
Dinder CAP, Revised for RVP 8. Shell Height (H) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for RVP 8. Tank Diameter (f) Dinder CAP, Revised for CAP, Revised	Under CAP, Revised for RVP 8 Tank Diameter (II)	S							Design Capacity	Volume	1	900,000	 -	1	5	
Under CAP, Revised for RVP 8. Tank Diameter (II) Independent of the fixed Roof Floating Roof External Control Indep / TAP Equipment Control Control Indep / TAP Equipment Control Equipment Control Contro	Tank Diameter (11) Tank Diameter (12) Tank Diameter (13) Tank Di		<u>د</u> ا	Votes				T	Shell Height (ft)	;		0,5	 	ا		T
Intant Specific Information Control Control HAP / TAP Equipment Equipment Equipment Equipment CaS Number Code Efficiency Compliance Code Efficiency Code Efficiency Code Efficiency Compliance Efficiency Compliance Code Efficiency Code Code Efficiency Code Code Efficiency Code Code Efficiency Code	Lusani Specific Information Lusa		Under CAP; R	Covised for	RVP 8.				Tank Diameter (()		310	-	Ĭ	K	
	12-07 Control Contro									d Roof	Floating Roo		External			rmal
Control Cont	ion Point ID No. (Alternate ID) Control Equipment Control Cabinated Control Cabinated CAS Number Proposed Emission Rates Permitted Emission Rates Add, Continuous Change, Compliance	Air Pollutant Specific	Information													
Average Maximum Annual Unchanged Method	C (including those listed below) Average (lb/hr) Maximum Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Method (tons/yr) C (including those listed below) 000071-43-2 30.66 Capped C nzene 000098-82-8 0.23 Capped C nixed isomers) 60100-41-4 2.03 Capped C nixed isomers) 4N/A 5.95 Capped C e 60110-54-3 32.94 Capped C	Emission Point ID?	(QI	Control quipment Code	Control Equipment Efficiency	HAP /	TAP	Prof	oosed Emission l	Rates	Permitted Emission Rate (Current)	Add, Change,	Continuous	Concent	ration in Ga	8008
XC (including those listed below) 60071-43-2 30.66 Capped C 1252.21 30.66 Capped C C 1252.21 30.66 C C 1252.22 Capped C C 1252.22 C	XC (including those listed below) Capped C Action (including those listed below) 00071-43-2 30.66 Capped C Action (including those listed below) 00098-82-8 0.23 Capped C Action (including those listed below) 00100-41-4 2.03 Capped C Action (including those listed below) 00100-41-4 2.03 Capped C Action (including those listed below) 00100-41-4 2.03 Capped C Action (including those listed below) 00110-54-3 32.94 Capped C	Pollutant					<u> </u>	Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method			
Actimistum Britisca Condition Actimistum Britisca Condition Actimistum Britisca Condition Capped C 126ne 0.0100-41-4 2.03 Capped C 126ne 0.0108-88-3 14.93 Capped C mixed isomers #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	Actividating index isocociety Capped C nixed 00098-82-8 0.23 Capped C nixed 00100-41-4 2.03 Capped C mixed isomers) #N/A 5.95 Capped C e #N/A 5.95 Capped C c #N/A 32.94 Capped C	Trees WOC Lines	(molecularity)				-		5252.21		Capped	ပ			ppm b	by vol
nzene 0.0098-82-8 0.23 Capped C nizene 00100-41-4 2.03 Capped C mixed isomers) #N/A 5.95 Capped C mixed isomers 00110-54-3 32.94 Capped C	nixed isomers) 0.010-84-3 0.23 Capped C mixed isomers) 00108-88-3 14.93 Capped C mixed isomers) #N/A 5.95 Capped C e 00110-54-3 32.94 Capped C	Benzene	(Company of the Comp			000717	43-2		30.66		Capped	C			d mdd	by vol
00100-41-4 2.03 Capped C 00108-88-3 14.93 Capped C #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	00100-41-4	Cument				₹86000	82-8		0.23		Capped	၁			d mod	by vol
60108-88-3 14.93 Capped C #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	#N/A 5.95 Capped C C Capped C C Capped C Capped C Capped C C C C C C C C C C C C C C C C C C C	Cthul benzene				8 8	4 =	ŀ	2.03		Capped	J			d mad	by vol
#N/A 5.95 Capped C 32.94 Capped C	#N/A 5.95 Capped C Capped C Capped C Capped C	Toluene				80108	88-3		14.93		Capped	S			ф шаа	by vol
00110-54-3 32.94 Capped C	32.94 Capped C	Yulene (mixed isomers)				N#	_		5.95		Capped	O			ppm b	ox vol
		n-Hexane				00110	54-3		32.94		Capped	S			o mdd	by vol
form_7203_r00		70/80/10														

					State of Louisiana	ouisiana						Date	Date of submittal
			Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Inventory (Questionn	aire (EIQ) for Air F	ollutants				<u>D</u>	2010
				LOOP, LLC	LOOP, LLC Port Complex - Lafourche Parish	cx - Lafour	che Parish		!				
Emission Point ID No. (Alternate	Mernate	Descriptive	Descriptive Name of the Emissions Source (Alt. Name)	missions Sour	rce (Alt. Nam	e l		νb	Approximate Location of Stack or Vent (see instructions)	n of Stack or	ent (see instru	ctions)	
(<u>a</u>			77 - 1- 7 - 1- T	Post Done	_		Method		27, U	27, "Unknown"		Datu	Datum NAD27
13-07			1 ank 94 1 2 (1	Lank 6412 (Clovelly Doine)			UTM Zone	21	Horizontal	764302	mE Ver	Vertical 3	3261267 mN
Tempo Subject Item ID No.	ID No.						Longitude	8 8	91	-	. 53		
EQT038				ŀ	: :		r	Charle Can Ball	Normal Oners	, inc	Date of	Perce	Percent of Annual
Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft ²)	r Stack ta (ft²)	Height of Stack Above Grade (ft)	ž 	nck Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft³/min)		Temperature (°F)	Time (hours per year)		Construction or Modification	Throughp	Throughput Through This Emission Point
SE	n/a ft		n/a ft	17/a	- IVsec	υ/a	ft^3/min n	n/a °F	8,760	hr/yr		Jan- Apr- Mar Jun 25% 25%	r- Jul- Oct- n Sep Dec % 25% 25%
	4	H²								3	constructed		
1	Type of Fuel Used and Heat Input (see instructions)	and Heat I	nput (see inst	tructions)					Operating Parameters (include units)	tmeters (incl	ude units)		
1	Tyne of Fuel		Heat In	Heat Input (MMBTU/h	J/hr)					Parameter		Desci	Description
8	n/a					E _O N.	al Operating 1	Normal Operating Rate/Throughput					
٩						Maxi	mum Operatin	Maximum Operating Rate/Throughput	5				
3						Desi	Design Capacity/Volume	olume		000'009		٦	PPI
		Notes				Shell	Shell Height (ft)						
	Under CAP	Under CAP; Revised for RVP 8.	RVP 8.			Tank	Tank Diameter (ft)			310		اَ	feet
	'	İ		j			Fixed Roof	Roof	Floating Roof	o Jo	External		Internal
Air Pollutant Specific Information	nformation												
Emission Point ID No. (Alternate ID)	(ar	Control	Control	HAP/TAP	,				Permitted Fmission Rate	PPV			
70-81		Equipment Code		CAS IN BIRDER		Proposed	Proposed Emission Rates	frs	(Current)	Change, Delete, or	Continuous	Concen	Concentration in Gases Exiting at Stack
Pollutant			<u> </u>		Аустявс		Maximum	Annual	Annual	Unchanged	ואוכוווווו		
					(lb/hr)	$\frac{1}{1}$	(IDS/III)	(tolls/yr)	(16/81)	ļ			love and many
Total VOC (including those listed below)	se listed below)					+	5252.21		Capped	ار			ppin by vol
Renzene				00071-43-2			30.66		Capped	ر			bbrn by voi
Cumene				00098-82-8			0.23		Capped	ပ			ppm by vol
Cibyl benzene				00100414			2.03		Capped	U			ppm by vol
Toluene				00108-88-3			14.93		Capped	٥			lov vol
Xylene (mixed isomers)				#N/A			5.95		Capped	ان			ppm by vol
n-Hexane				00110-54-3	 -	-	32.94	1	Capped	٥			ppm by voi

Figure Part Direct Part Par						State of	State of Louisiana	~					Toan	Date of submittal
100P, LLC Port Complex - Lafourth t Parish 100P, LLC Port Complex - 10P, LLC Port Compl				Emissions	Invent	ory Questio	nnaire (E	IQ) for Air	Pollutants				<u>36</u>	
					1,00P,	LLC Port Con	nplex - Lafe	ourche Parish						
1477 1486	Emission Point 1	D No. (Alternate	Descriptiv	ve Name of the	Emissions	Source (Alt. No	эше)		ldv	proximate Locati	on of Stack or	Vent (see instri	ıctions)	
UTM Zone 1 1 1 1 1 1 1 1 1		(a)		Tank 6413	(Clovelly I	Dome)		Method		27,"(Inknown"		Dati	ım NAD27
Califolds Cali	<u> </u>					ì		UTM Zone		١.	764302	9		3261267 mN
Condition Discharge Disc	Tempo Subje	ct Item ID No.						Latitude	8 8	12		26.	[
	EQ	r039												
1	Stack and Disc Physical Charac Change? (yes		neter (ft) or Stack charge Area (ft²)	Height of S Above Grad		Stack Gas Exit Velocity	Stack (Condit Standa	ias Flow at ions, <u>not</u> at rd (ft³/min)	Stack Gas Exit Temperature (*P)	Normal Oper Time (hours per y		Date of istruction or odification	Perce Through	nt of Annual sut Through Thi ission Point
Type of Fuel Used and Heat Input (See instructions) Nomes Type of Fuel Heat Input (MMBTU/hh.) Nomes Operating RaacThroughput Parameters (include units)	OU						π/a	Ē]	8,760	hr/yr		\vdash	Jul- Sep 25%
Type of Fue! Used and Heat Input (MMBTU/hz) Normal Operating Rate/Throughbut Persmeter Description			¥ 										_	
Design Capacing Specific Information Type of Fleet Heat Input (MMBTU/hr) Normation Operating Rate/Throughput Average Normation Operating Rate/Throughput Average Normation Operating Rate/Throughput Average Shell Height (ft) Tank Diameter (f	_	Type of Fi	uel Used and Heat	Input (see in	struction	(\$1				Operating Par	ameters (inc	ude units)		
Design Capacity (1) 1	Tvp	e of Fuel	Heat 1	Input (MM	(BTU/hr)	_				Parameter		Desci	iption	
b Maximum Operating Rate/Throughput Maximum Operating Rate/Throughput Add/bigged <			n/a				Ž	ormal Operating	Rate/Throughput			-		
Control Cont	م						Σ	aximum Operati	ing Rate/Throughp	out				
Control Cont	ر د						_م	esign Capacity/V	/olume		000,009			191
Litant Specific Information Control IAP Tank Diameter (ft) Fixed Roof Floating Roof External Control IAP TAP Fixed Roof Floating Roof External Continuous Control IAP TAP Fixed Roof Floating Roof External Continuous Control IAP TAP Fixed Roof Floating Roof External Continuous Control IAP TAP Fixed Roof Continuous Control Control Control Control Control Control Continuous Control C			Notes				S	nell Height (ft)	1					
Intant Specific Information Control Control Gontrol Efficiency Code Efficiency Code Efficiency Code Code Efficiency Code Code Efficiency Code C			Inder CAP, Revised for	r RVP 8.			<u>F</u> I	unk Diameter (ft)			310		y	3
Light Specific Information Lontrol Control Control Control Control Control Control Equipment Equipment Equipment Equipment CAS Number Code Efficiency Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Code Code							l							Ì
Permitted Permitted Permitted Permitted Permitted Add, Continuous Equipment CAS Number Proposed Emission Rates Current Change, Compliance Continuous Continuo	S to the little of the	chemical action							Roof	Floating Ro		External	ا	
Equipment Code Efficiency Code Efficiency Code Efficiency Code Proposed Emission Rates Emission Rates Current Courson Courson Courson Courson Courson Courson Courson Code Compliance Courson Code Code Code Code Code Code Code Code	The resident Posi-	TO NO (Albaras	101	Control	HAP/	TAP				Permitted				
14-07 Code Efficiency Code Efficiency Code Efficiency Code Compliance Compli					CASN	ımber	O	O noissing D		Emission Rate	Add,	Continuous		
It Average (including those listed below) Average (ibAhr) Maximum (tons/yr) Annual (t		14-07	Code							(Current)	Change, Delete, or	Compliance		tration in Gases ing at Stack
CC (including those listed below) Capped C C (including those listed below) 00071-43-2 30.66 Capped C Izene 000098-82-8 0.23 Capped C Izene 001004-14 2.03 Capped C Inixed 00108-88-3 14-93 Capped C mixed isomers) #N/A 5.95 Capped C mixed isomers) 00110-54-3 32.94 Capped C	Pollutant						crage b/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Angual (tons/yr)	Unchanged	Method		
nixed isomers) 00071-43-2 30.66 Capped C nzene 00100-41-4 2.03 Capped C mixed isomers) #N/A 14.93 Capped C mixed isomers) #N/A 5.95 Capped C	Total VOC (incl.	ding those listed by	(mol-			1		\$252.21		Capped	Ç			ррт by vo
nzene 00100-41-4 2.03 Capped C mixed isomers) 00108-88-3 14-93 Capped C mixed isomers) #N/A 5.95 Capped C mixed isomers) 4N/A 5.95 Capped C	Benrene	4	-		00071	43-2		30.66		Capped	၁			ол уд шда
00100-41-4 2.03 Capped C 00108-88-3 14.93 Capped C #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	Cumene				.86000	82-8		0.23		Capped	O O			ол уд шдд
00108-88-3 14.93 Capped C #N/A 5.95 Capped C 00110-54-3 32.94 Capped C	California benzene		-		00100	414		2.03		Capped	၁			ov yd mgg
#N/A 5.95 Capped C 0.0110-54-3 32.94 Capped C	Toluene				00108	88-3		14.93		Capped	- S			ppm by vo
00110-54-3 32.94 Capped C	Yulene (mixed is	omere)			\Z#	\ 		5.95		Capped	C			ov yd mqq
	n Heyone	/Gramo			00110	54-3		32.94		Capped				ppm by vo

					State o	State of Louisiana	 -	<u> </u>				Date	Date of submittal
			Emissions	Invent	ory Questi	onnaire (E	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				260	2010
				LOOP,	LLC Port Co	JOOP, LLC Port Complex - Lafourche Parish	ourche Parish						
Emission Point ID No. (Alternate	Mernate	Descriptive	Descriptive Name of the Emissions Source	Emissions	Source (Alt.	(Alt. Name)		App	Approximate Location of Stack or Vent (see instructions)	on of Stack or	Vent (see instru	ıctions)	
(GI 15.07			Tank 6414 (Clovelly Dome)	(Clovelly 1	Dome)		Method		27,*U	27,"Unknown"		Dati	2
70-61				(100.00)	<u> </u>		UTM Zone		Horizontal	764302	mE Ve	Vertical	3261267 mN
Tempo Subject Item ID No.	D No.						Longitude	63 64	16	·	29 "		
EQT040				ŀ		-						2	
Stack and Discharge Physical Characteristics	Diameter (ft) or Stack Discharge Area (ft ²)	r Stack :n (ft²)	Height of Stack Above Grade (ft)		Stack Gas Exit Velocity		Stack Gas Flow at Conditions, not at	Stack Gas Exit Temperature	Normal Operating Time (hours per year)		Date of Construction or Modification	Perce Through	Fercent of Annual Throughput Through This Emission Point
Cualific: (yea of no)							()	:	•		_	lan- Ar	Apr. Jul. Oct-
0.	17/a ft		n/a f	ft n/a	f/sec	r/a	ft^3/min	n/a °F	8,760	hr/yr	_	+	Sep 25%
	# 	ft²				. <u>. </u>							
	Type of Fuel Used and Heat Input (see instructions)	and Heat I	nput (see ins	struction	18)				Operating Parameters (include units)	ameters (inc	lude units)		
	Type of Fuel		Heat I	Heat Input (MMBTU/hr)	1BTU/hr)	L T	i			Parameter		Desci	Description
œ	n/a					<u>[ž</u>	ormal Operating	Normal Operating Rate/Throughput					
ءِ ا						Σ	eximum Operati	Maximum Operating Rate/Throughput					
2							Design Capacity/Volume	Jolume		000,009	1		ppl
		Notes				ts.	Shell Height (ft)						
	Under CAP,	Under CAP, Revised for RVP 8.	RVP 8.		:		Tank Diameter (ft)			310		٤	feet
							Levi in	Jood Post	Floating Roof	<u>.</u>	External		Internal
roje manglet officer S each Had - it	Commetion					1			9				
Emission Point ID No (Alternate ID)	(Alternate ID)	Control	Control	HAP/TAP	TAP				Permitted				
10.31		Equipment	Equipment Regions	CAS Number	ımber	Propos	Proposed Emission Rates	afes -	Emission Rate	Add,	Continuous	Concen	Concentration in Gases
10-01		Š	Camara mer						,	Delete, or	Compliance	Exit	Exiting at Stack
Pollutant						Average (Ib/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged			
Conclude to the Control of the Contr	ra listed helpin)						5252.21		Capped	U			lov yd mqq
Decision	ac listed teriors)			00071-43-2	43-2		30.66		Capped	S			ppm by vol
Delizene				00098-82-8	82-8		0.23		Capped	၁			ppm by vol
Culticate Ethil benzene				00100414	4.4		2.03		Capped	C			ppm by vol
Tohiene				00108-88-3	88-3		14.93		Capped	D			ppm by vol
Xvlene (mixed isomers)				#N/A	Ķ		5.95		Capped	U			ppm by vol
n-Hexane				00110-54-3	-54-3		32.94		Capped	ပ			ppm by vol

Point ID No. (Alternate Descriptive Name of the Emissions Source (A ID) 16-10 O Subject Hem ID No. Type of Fuel Used and Heat Input (See instructions) Type of Fuel Used and Heat Input (See instructions) Type of Fuel Used and Heat Input (See instructions) Notes Notes Notes Control							Date of submitta	ıttal
neter (ft) or Stack scharge Area (ft²) A² Rel Used and Heat II ne of Fuel Notes Under CAP. Code Code Code	as Inventory Ouestionnaire	(EIO) for Air Po	ollutants					2010
meter (ft) or scharge Area ft	LOOP, LLC Port Complex -	Complex - Lafourche Parish					_	
16-10 16-10 Tank 6415 (Clovelly Dome) 16-10 Tank 6415 (Clovelly Dome) 16-10 Tank 6415 (Clovelly Dome) 16-10 Type of Fuel Used and Heat Input (See instructions) Type of Fuel Used and Heat Input (See instructions) Type of Fuel Used and Heat Input (See instructions) Type of Fuel Used and Heat Input (MMBTU/hr) Tank T	ie Emissions Source (Alt. Name)	}	Appr	Approximate Location of Stack or Vent (see instructions)	f Stack or Vent (1	iee instruction	(51	
mpo Subject Hem ID No. ck and Discharge bischarge Area (ft) or Stack bischarge Area (ft) ves Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Control Tope of Fuel Used and Heat Input (See instructions) Dollutant Specific Information Tope of Fuel Used and Heat Input (See instructions) Notes Under CAP Tope of Fuel Used and Heat Input (See instructions) Control Equipment Equipment CAS Number 16-10 Code Equipment Equipment CAS Number 16-10 Code Code Equipment Against Equipment CAS Number 16-10 Code Code Equipment Code Code Code Code Equipment Code Code Equipment Code S (Clovelly Dome)	Method		27, Unknown*	own*		Datum NAD27	27	
mpo Subject Item ID No. ck and Discharge Discharge Area (ft') Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Notes Under CAP. Follutant Specific Information I6-10 Control Code Equipment Equipment OOO71-43-2 Ence	contract (contract) contra	UTM Zone	15	Horizontal	764302 INE	Vertical	32612	Nm 79
te and Discharge Discharge Area (ft) or Stack Gas I Above Grade (ft) Velocity ange? (yes or no) yes yes Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (MMBTU/hr) Dollutant Specific Information Toder CAP. Notes Under CAP. Equipment Equipment CAS Number Info Control Cont		Longitude	06	. 91		39 6		hundredths
10 10 10 10 10 10 10 10	Stack Gas Exit Velocity	Stack Gas Flow at S Conditions, not at Standard (ft²/min)	Stack Gas Exit Temperature (PF)	Normal Operating Time (hours per year)	Construction or Modification		Percent of Annual Throughput Through This Emission Point	ous! igh This
Type of Fuel Used and Heat Input (Type of Fuel a	n/a ft/sec	n/a ft^3/min n/a		8,760 hr/yr			Jan- Apr- Jul- Mar Jun Scp 25% 25% 25%	Oct-
Type of Fuel Type and Heat Input (Type of Fuel Type of					proposed	<u> </u>		
Pollutant Specific Information mission Point ID No. (Alternate ID) IGHORAGIA	instructions)		0	Operating Parameters (include units)	eters (include u	nits)		
Notes Under CAP. Control Equipment Equipment Code Efficiency	t Input (MMBTU/hr)				Parameter	+	Description	
Notes Under CAP. Control Control Equipment Equipment Code Efficiency		Normal Operating Kate/1 hroughput Maximum Operating Rate/Throughput	ite/ i hroughput Rate/Throughput					
Notes Under CAP. Control Control Equipment Equipment Code Efficiency		Design Capacity/Volume	ume		000,009		199	
Under CAP. Control Control Equipment Code Efficiency		Shell Height (ft)						
Control Control Equipment Equipment Code Efficiency		Tank Diameter (ft)		-	310		<u>set</u>	
Control Control Equipment Equipment Code Efficiency		☐ Fixed Roof	joc	Floating Roof	<u>a</u>	External	0	Internal
Control Control Equipment Equipment Code Efficiency					•			
	HAP / TAP CAS Number	Proposed Emission Rates	x i	Permitted Emission Rate (Current)	Add, Con		Concentration in Gases	Gases
		-		T		Method	Exiting at Stack	75
	Average (1b/hr)	Maximum (Ibs/hr)	Annual (tons/yr)	(tons/yr)	Unchanged			
		5252.21		Capped	A		PP	ppm by vol
	00071-43-2	30.66		Capped	4		PP	ppm by vol
	00098-82-8	0.23		Capped	٧		PP	ppm by vol
Ethil beniene	00100414	2.03		Capped	V		PP	ppm by vol
	00108-88-3	14.93		Capped	A		PP.	ppm by vol
nixed isomers)	#N/A	5.95		Capped	√		ad	ppm by vol
n-Hexane	00110-54-3	32.94		Capped	٧		a	ppm by vol

17-10 19		.: (610) for Air 1	ollutants			Dec	0100
scharge Area scharge Area n/a n/a n/a are 1D) E schow)		alre (ElQ) ioi Air i					2010
meter (ft) or scharge Area at 1D) E E	LOOP, LLC Port Comple	Complex - Lafourche Parish	:				
Discharge Area (ft) or Stack Discharge Area (ft) Discharge Area (ft) Discharge Area (ft) Above Grade (ft) Rotes Type of Fuel Notes Under CAP. Control Equipment Equipment Code Efficiency Code Efficiency Constrol Code Efficiency	me of the Emissions Source (Alt. Name		Appr	oximate Location o	Approximate Location of Stack or Vent (see instructions)	ıstractions)	<u> </u>
D No. Diameter (ft) or Stack Discharge Area (ft²) Above Grade (ft) Above Grade (ank 6416 (Clovelly Dome)	Method		27,"Unknown"	own"	Datum NAD27	NAD27
D No. Discharge Area (ft) or Stack Discharge Area (ft ²) Discharge Area (ft ²) Above Grade (ft) Rain Discharge Area (ft ²) Rain Discharge Area (ft ²) Above Grade (ft) Rain Discharge Area (ft ²) Above Grade (ft) Rain Discharge Area (ft ²) Above Grade (ft) Rain Discharge Area (ft ²) Above Grade (ft) Rain Discharge Area (ft ²) Notes Under CAP. Control Control Control Code Efficiency Code Efficiency Coopselge		UTM Zone	51	Horizontal	764302 mE	Vertical 3261267	267 mN
Discharge Area (ft) or Stack Discharge Area (ft) Discharge Area (ft) Above Grade		Latitude	. 06	. 91	29	6	hundredths
Discharge Area (ft²) Above Grade (ft) n/a	eight of Stack Stack Cas Exit	Stack Gas Flow at	Stack Gas Exit	Normal Operating	-	H	Percent of Annual
Pes n/a ft n/a	ove Grade (ft) Velocity	Conditions, not at	Temperature (°F)	Time (hours per year)	Construction or Modification		Throughput Through This Emission Point
Pollutant Specific Information Type of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Notes Under CAP. Under CAP. Equipment Equipment Equipment 17-10 Control IVOC (including those listed below)		.5	ಚ. ಆ/ದ	8 760 hr/vr		Jan- Apr- Mar Jun	Jul- Oct-
Type of Fuel Used and Heat Input (Type of Fuel Type of Fuel Dalace CAP. Under CAP. Pollutant Specific Information Type of Fuel Notes Under CAP. Control Equipment Equipment I7-10 Code Efficient Equipment Equipment IVOC (including those listed below) Ene					pasodoid	ļ .	
Pollutant Specific Information mission Point ID No. (Alternate ID) I 7-10 I VOC (including those listed below) Entire Entire Efficience	it (see instructions)		0	perating Param	Operating Parameters (include units)		
Pollutant Specific Information mission Point ID No. (Alternate ID) Pollutant Specific Information Pollutant Specific Information Pollutant Specific Information Pollutant Specific Information Control Equipment Equipment Equipment Equipment IT-10 Code Efficience Heat Input (MMBTU/hr)				Parameter	Description	00	
b Notes Under CAP. Under CAP. Sion Point ID No. (Alternate ID) Equipment Equipment 17-10 Code Efficiency Code Efficiency Code Efficiency		Normal Operating Rate/Throughput	Rate/Throughput				
Notes Notes		Maximum Operating Rate/Throughput	g Rate/Throughput				
Notes Under CAP. Under CAP. Ilutant Specific Information sion Point ID No. (Alternate ID) Equipment Equipment Code Efficiency Code		Design Capacity/Volume	olume		000,009	IQI P	
Under CAP. Under CAP. Under CAP. Intent Specific Information Control Equipment 17-10 Equipment Efficiency Code Efficiency Code Code Code Code Code Code Code Code Code Code Code Code Code Code		Shell Height (ft)					
sion Point ID No. (Alternate ID) Equipment Equipment Equipment Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code		Tank Diameter (fl)			310	leet	
liutant Specific Information sion Point ID No. (Alternate ID) Equipment 17-10 Code Efficiency Code Code Efficiency Code Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code		Fixed Roof	Joog	Floating Roof	External	la la	Internal
sion Point ID No. (Alternate ID) Control Control Equipment Equipment Code Efficiency Code Code Code Control Control Equipment Code Efficiency Code Code Efficiency Code Code Efficiency				51			
Equipment Equipment 17-10 Code Efficiency C (including those listed below)	<u> </u>			Permitted			
XC (including those listed below)		Proposed Emission Rates	. <u>. </u>	(Current)	Change, Continuous Delete, or		Concentration in Gases Exiting at Stack
XC (including those listed below)	Average	ge Maximum	Annual (tons/yr)	Annual (tons/yr)	Unchanged Memod		
		+		Capped	A		ppm by vol
	00071-43-2	30.66		Capped	A		ppm by vol
	00098-82-8	0.23		Capped	A		ppm by vol
Colors C	00100414	2.03		Capped	Y		ppm by vol
	00108-88-3	14.93		Capped	V		ppm by vol
Xylene (mixed isomers) #N/A	V/N#	5.95		Capped	¥	$\frac{1}{1}$	ppm by vol
n-Hevane 00110-54-3	00110-54-3	32.94		Capped	٧		ppm by vol

					State	State of Louisiana	123					<u>E</u>	Date of submittal
			Emissions	Invent	ory Quesi	tionnaire (E	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				Dec	2010
				LOOP,	LLC Port (Complex - Laf	LOOP, LLC Port Complex - Lafourche Parish						
Emission Point 1D No. (Alternate	Iternate	Descriptive	Descriptive Name of the Emissions Source	Emission	s Source (Alt	(Alt. Name)	i	idv	Approximate Location of Stack or Vent (see instructions)	n of Stack or	/ent (see instru	ctions)	
(QI			Teak 6417 (Clovelly Dome)	Clovelly	Dome)		Method		17,"U1	27,"Unknown"		Dat	Datum NAD27
01-81			100	(Citovelly	(auno)		UTM Zone		Horizontal	764302	mE Ve	Vertical	3261267 mN
Tempo Subject Item ID No.	D No.						Longitude	. 6	91		29.		
Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft²)	r Stack ea (fr²)	Height of Stack Above Grade (ft)	 	Stack Gas Exit Velocity		Stack Gas Flow at Conditions, not at Standard (ft ² /min)	Stack Gas Exit Temperature (*F)	Normal Operating Time (hours per year)		Date of Construction or Modification	Perc Through Em	Percent of Annual Throughput Through This Emission Point
yes	n/a ft	٠.	n/a	f)	a fl/sec		. ⊆	1/a %F	8,760	hr/yr		Jan- A Mar Ju 25% 22	Apr- Jul- Oct- Jun Sep Dec 25% 25% 25%
		ft,									proposed		
Ê	Type of Fuel Used and Heat Input (see instructions)	and Heat	Input (see in	struction	ns)				Operating Parameters (include units)	meters (incl	ude units)	,	
Fuel	Type of Fuel		Heat 5	Heat Input (MMBTU/hr	MBTU/hr)	 				Parameter	\ 	Sel	Description
в	n/a					_	Normal Operating	Normal Operating Rate/Throughput			1		
٩						<u>- '</u>	Aaximum Operati	Maximum Operating Rate/Throughput	ı tı	000 009	+		4
) c						<u>-</u> 1	Design Capacity, volume	Olume		200,000	 		
		Notes				<u>~ -</u>	Shell Height (ft) Took Diemeter (ft)			٤			fect
	Ď.	Onder CAP.					any Clamater (iii						
						.	D Fixed Roof	Roof	Floating Roof	of 🖸	External		□ Internal
Air Pollutant Specific Information	formation												
Emission Point ID No. (Alternate ID)	(al	Control	_	HAP/TAP	/TAP				Permitted Emission Bate	7			
18-10		Equipment Code	Efficiency	CAS Number		Prop	Proposed Emission Rates	ates	(Current)	Change, Delete, or	Continuous Compliance	Concen	Concentration in Gases Exiting at Stack
Pollutant					<u> </u>	Average (lb/br)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Politica Art		
Total MOC (including those listed below)	e lieted below)				-		5252 21		Capped	Y			ppm by vol
Description	וופונת הבוסא)			00071-43-2	43.2		30.66		Capped	٧			ppm by vol
Cumere				00098-82-8	.82-8		0.23		Capped	V			ppm by vol
Columnia Columnia				414-00100	4 4		2.03		Capped	٧			ppm by vol
Toluene				00108-88-3	-88-3		14.93		Capped	V			ppm by vol
Xvlene (mixed isomers)				V/V#	/\A	,	5.95		Capped	<			lov yd mgg
n-Hexane				00110-54-3	3-54-3		32.94		Capped	$\left\{ \right.$			ррт бу уо

					St	State of Louisiana	iisiana						Date	Date of submittal
			Emis	sions In	ventory Q	uestionna	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	or Air P	ollutants				<u>, 2</u>	2010
				ĭ	LOOP, LLC Port	ort Comple	Complex - Lafourche Parish	: Parish					_	
Emission Point ID No. (Alternate	t ID No. (Alt		riptive Name	of the Emi	Descriptive Name of the Emissions Source (Alt. Name)	: (Alt. Name)	<u> </u>		νþ	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instru	uctions)	
	(<u>0</u> 5		Tan	1. 64 LR (Clo	Tenk 6418 (Clovelly Dome)		<u> </u>	Method		J., 7.2	27,"Unknown"		Date	Datum NAD27
	01-61		•		ment connect		2.	UTM Zone	15	Horizontal	764302	mE Vc	Vertical	3261267 mN
Tempo Sub	Tempo Subject Item ID No.	No.					<u> </u>	Longitude	. 62	. 91	. .	50		
Stack and Discharge	ischarge	Diameter (ft) or Stack	\vdash	Height of Stack	Str	ns Exit	Stack Gas Flow at		Stack Gas Exit	Normal Operating	_	Date of	Perce	Percent of Annual
Physical Characteristics Change? (yes or no)	acteristics	Discharge Area (ft*)		Above Grade (ft)) verocity		Conditions, not at Standard (ft ³ /min)		(F)	(hours per year)		Modification	Emi	Emission Point
SX.		10/a ft	r/a	e	10/3	fl/sec	n/a fl	ft^3/min n/a	18 T	8,760	hr/yr		Jan- Apr- Mar Jun	nr- Jul- Oct-
		f h 2	 .									proposed		
	 TyT	Type of Fuel Used and Heat Input (see instructions)	leat Input (see instru	ctions)					Operating Parameters (include units)	ameters (incl	lude units)		
Fuel		Type of Fuel		Heat Inpu	Heat Input (MMBTU/hr)	ب					Parameter		Descr	Description
æ		n/a					Normal (Operating R	Normal Operating Rate/Throughput					
۵							Maximu	m Operating	Maximum Operating Rate/Throughput	<u> </u>	000	1		
၁							Design (Design Capacity/Volume	lume		000,000	1	* 	100
		Notes	20				Shell Height (ft)	ight (ft)			9			
		Under CAP.	AP.				Tank Du	Tank Diameter (ft)			310		ĭ	וכבו
								Fixed Roof	Jø	Floating Roof	J0	External		Internal
Air Pollutant Specific Information	Specific Int	formation				-								
Emission Pc	oint ID No. (Emission Point ID No. (Alternate ID) Control	\vdash	L	HAP / TAP					Permitted				
	19-10	Equipment Code	ment Equipment de Efficiency		CAS Number		Proposed Emission Rates	nission Rat	8	Emission Rate (Current)	Add, Change, Delete, or	Continuous	Concen	Concentration in Gases Exiting at Stack
Pollutant						Average (1b/br)		Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method		
Total VOC (including those listed below)	Poding those	listed helow)	+	+			-	5252.21		Capped	\ 			ppm by vol
Renzene	9	,			00071-43-2		30	30.66		Capped	٧			ppm by vol
					00098-82-8		0	0.23		Capped	٧			ppm by vol
Eshal hensene			-		00100414		2,1	2.03		Capped	٧			ppm by vol
Toluene			-		00108-88-3		14	14.93		Capped	V			ррт ру vol
(Xylene (mixed isomers)	isomers)				#N/A		5.	5.95		Capped	<			ppm by vol
n-Hexane					00110-54-3		32	32.94		Capped	<			ррт by vol

Emission Point ID No. (Alternate 1D) Emission Point ID No. (Alternate 20-10) Tempo Subject Item ID No. Tempo Subject Item ID N	ptive	nissions Inventory Que LOOP, LLC Port ime of the Emissions Source (A Tank 6419 (Clovelly Dome)		stionnaire (EIQ) for Air Complex - Lafourche Parish	for Air P the Parish	ollutants					2010
scharge Area n/a n/a n/a n/a Uni	Tank 6415 Tank 6415 Tank 6415 Tank 6415 Tank 6415 Tank 6415	Emissions Sot								•	
meter (ft) or scharge Area n/a ft n/a ft n/a n/a n/a n/a n/a n/a Und	Tunk 6419 ack Height of the state of the st	(Clovelly Dom	urce (Alt. Name	(3		App	Approximate Location of Stack or Vent (see instructions)	on of Stack or	Vent (see instri	uctions)	
Tempo Subject Item ID No. Stack and Discharge Diameter (ft) or Stack Physical Characteristics Discharge Area (ft²) Change? (yes or no) yes r/a R Fuel a n/a b hote Under C	1/4 A 1/4	velly	,		Merhod		J- 7.0	27 "Unknowa"		Datum	Datum NAD27
Stack and Discharge Diameter (ft) or Stack Physical Characteristics Discharge Area (ft.²) Change? (yes or no) yes rola Rect <u> </u>		(c)		UTM Zone	15	Horizontal	764302] .	Vertical 3261267	267 mN	
Stack and Discharge Diameter (ft) or Stack Physical Characteristics Discharge Area (ft.²) Change? (yes or no) yes r/a lt.² Type of Fuel Used and H Type of Fuel b b Note: Under C	el	ŀ			Latitude Longitude	30 30	16	[16]	50 50	9 6	hundredths
Change? (yes or no) yes rol Type of Fuel Used and H Type of Fuel Discharge Area (ft²) R² Type of Fuel Dote:		_	Stack Gas Exit	Stack Gas Flow at		Stack Gas Exit	Normal Operating	\vdash	Date of	Percent o	Percent of Annual
3	n/a		Velocity	Conditions, not at Standard (ft ³ /min)	't'/min)	Temperature (°F)	Time (hours per year)		Construction or Modification	Throughput Through This	ghput Through This Emission Point
		n n/a	H/sec	r/a	.5	n/a • F	8,760	hr/yr		Jan- Apr- Mar Jun 25% 25%	Jul- Oct- Sep Dec 25% 25%
a 0 0					_		•		proposed		-
8 A V	1 Heat Input (see it	ıstructions)					Operating Parameters (include units)	ameters (inc	lude units)		
а b c	Heat	Heat Input (MMBTU/hr)	U/hr)					Parameter		Description	uo
				Norma	d Operating F	Normal Operating Rate/Throughput			1		
Note: Under C				Maxim	num Operatin	Maximum Operating Rate/Throughput	in the	000 000	+	4	
Notes Under C.				I Vesign	Design Capacity/Volume	olume olume		200,000			
Under C.	ites			Shell F	Shell Height (ft)			016		jesj	
	r CAP.			ank	l ank Diameter (ft)			010			
				0	Fixed Roof	300f	Floating Roof	90f 🖪	External		Internal
Air Pollutant Specific Information											
(a)	_	$ldsymbol{le}}}}}}}$	<u>а</u>				Permitted				
20-10 Equip	Equipment Equipment Code Efficiency	CAS Number		Proposed	Propostd Emission Rates	2	(Current)	Change, Delete, or	Continuous		Concentration in Gases Exiting at Stack
Pollutant			Average		Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method		
Tree VOC (including those listed below)				-	\$252.21		Capped	٧			ppm by vol
Rentene		00071-43-2	2		30.66		Capped	٧			ppm by vol
Designing		00098-82-8	8		0.23		Capped	٧			ppm by vol
Current		00100414			2.03		Capped	A			ppm by vol
Euryl Denkene Toliene		00108-88-3	3		14.93		Capped	٧			ppm by vol
Xvlene (mixed isomers)		#/N/#			5.95		Capped	√			ppm by vol
- Layer		00110-54-3	3		32.94		Capped	√			ррт бу уо

				State	State of Louisiana	กล					7,87	Date of submittal
_		Emissions	s Invent	ory Quest	ionnaire (Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				Dec	2010
			L00P,	LOOP, LLC Port C	omplex - La	Complex - Lafourche Parish						
Emission Point ID No. (Alternate		Descriptive Name of the Emissions Source (Alt. Name)	Emission	s Source (Alt.	Name)	_	IdV	Approximate Location of Stack or Vent (see instructions)	of Stack or V	ent (see instruc	rtions)	
1 D) 21-10		Tank 6420	Tank 6420 (Clovelly Dome)	Dome)		Method UTM Zone	15	27, Horizontal	05		Datu Vertical 3	기절
Tempo Subject Item ID No.	D No.					Latitude	62 58	16.		29		60 hundredths 97 hundredths
Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft2)	Height of Stack Above Grade (ft)		Stack Gas Exit Velocity		Stack Gas Flow at Conditions, not at Standard (ft²/min)	Stack Gas Exit Temperature	Normal Operating Time (hours per year)		Date of Construction or Modification	Perce Throughp Emi	Percent of Annual Throughput Through This Emission Point
yes	n/a A	n/a	f n/a	a f/sec	c r/a	f^3/min	n/a °F	8,760 hr	hr/yr		Jan- Apr- Mar Jun 25% 25%	r- Jul- Oct- n Sep Dec % 25% 25%
	n .								<u> </u>	proposed		
Ĺ	Type of Fuel Used and Heat Input (see instructions)	t Input (see in	nstruction)s)				Operating Parameters (include units)	neters (inclu	de units)		
Fuel	Type of Fuel	Heat	Heat Input (MMBTU/hr)	(BTU/hr)	7	ļ			Parameter		Descr	Description
ಪ	n/a				T	Normal Operating	Normal Operating Rate/Throughput	;		-		:
، م		<u> </u>				Maximum Operating Kate Design Capacity/Volume	Maximum Operating Kate/ Litroughput Design Capacity/Volume		000'009	-	ع ا	ppi
,	Notes					Shell Height (ft)						
	Under CAP.					Tank Diameter (ft)	(a)		310	-	ž	feet
						Fixed	Fixed Roof	Floating Roof	Ð	External		Internal
Air Pollutant Specific Information	nformation											
Emission Point ID No. (Alternate ID) 21-10	. (Alternate ID) Control Equipment Code	Control 11 Equipment Efficiency	HAP / TAP CAS Number	'TAP umber	Prog	Proposed Emission Rates	Lates	Permitted Emission Rate (Current)	Add, Change, Delete, or	Continuous	Concent	Concentration in Gases Exiting at Stack
Pollutant					Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method		
Total VOC (including those listed below)	se listed below)					5252.21		Capped	٧			ppm by vol
Benzene			0007143-2	43-2		30.66		Capped	A			ppm by vol
Cimene			00098-82-8	-82-8		0.23		Capped	Y			ppm by vol
Eshul benzene			41400100	4 4		2.03		Capped	٧			lov yd mgg
Toluene			00108-88-3	-88-3		14.93		Capped	<			lov yd mdd
Xylene (mixed isomers)			Y/N#	(A.		5.95		Capped	\ \			ov yd mgg
n-flexane			00110-54-3	-54-3		32.94		Capped	- -			ррт бу vol

10 No. Alternate Descriptor Name of the Emissions Source (Alt. Name) Descriptor Descriptor (EPO) for Ajr Pollutants Apprecianted Lection of State of the Emission Source (Alt. Name) Apprecianted Lection of State of Particles Apprecianted Lection of State of Particles Apprecianted Lection of State of Canada Apprecianted Lection of State of Particles Apprecianted Lection of Particles Appreciated Lection o			:			State of Louisiana	ouisiana						Date	Date of submittal
Complete Loop: LLC Pear Complete - Lafburchic Parish Apprentine training Apprent				Emissions	Invento	ory Question	naire (EIC)) for Air P	ollutants				<u> </u>	
Fine Dock All Part Dock All Part Dock					LOOP,	LLC Port Com	olex - Lafour	rche Parish						
Fig.	Emission Point IU	No. (Alternate	Descriptiv	'e Name of the l	Emissions	Source (Alt. Na	le)		ddV	roximate Location	n of Stack or	Vent (see instru	ctions)	
Figure Control Contr	<u> </u>			S20 HP Eme	reency Ge	nerator		Method		27, Un	known"		Datu	m NAD27
Free Park Present Processes Present Proc				A 111 070	10 fame)			UTM Zone	$ \ $	Horizontal	764302	. 01		1261267 mN
Payzieri Characteristic Discharge Area (II') Abort Craft (II) Vedelty Start Cas Flow at Start Cas Flow at Start Cas Flow at Start Characteristic Discharge Area (II') Abort Craft (II) Abort Creating Parameter (II')	Tempo Subject	Item ID No.						Langitude	.06	19		565		
Physical Characteristics Discharge Area (ift) Above Crade (ift) Standard (ift)min Standard (ift)	Stack and Disch	-	r (ft) or Stack	Height of St	\vdash	tack Gas Exit	Stack Gas	T	Stack Gas Exit	Normal Operat	ling	Date of	Perce	nt of Annual
14 15 15 15 15 15 15 15			rge Area (ft²)	Above Grade		Velocity	Condition Standard		Temperature (°F)	Time (hours per yea		sstruction or lodification	Throughp Emi	ut Through Thi ssion Point
Type of Fuel Used and Heat Input (See instructions) Operating Parameters (Include units) Operating Parameter (Include units) Operating Parameters (Include units) Op	yes		0.5 A	9.83 f		220.69 ft/sec	2,600	ft^3/min	3. 018		hr/yr			
Type of Fiet Used and Heat Input (see instructions) Normal Operating RateThroughput Parameters (include units) Diesel Heat Input (MMBTU/hr) Normal Operating RateThroughput Stock Diesel Heat Input (MMBTU/hr) Shell Height (i) Shell Height			H ²									proposed		
17 pte of Fact 16 pte 16	-	Type of Fuel	Lised and Heat	Input (see ins	struction	(8)	-	1		Operating Para	meters (incl	lude units)		
2	17:3	Tune of	Firel	Heat fr	nnut (MM	BTUAR					Parameter	1	Descr	iption
Specific Information Notes	500	Dies			3.64		Non	nal Operating R	tate/Throughput		520		β	ф
Shell Height (f) Tank Diameter (f) Tank	ما						Me	imum Operatin	g Rate/Throughpu		520		Ą	du
Tank Diameter (ft) Tank Di	J	<u> </u>					Desi	gn Capacity/Vo	slume					
Tank Diameter (ft)			Notes				Shel	Height (ft)						
Equipment Control Co						_	Tg	c Diameter (ft)	ļ					
1-10 Control							<u> </u>		βool	Floating Roo		External) Internal
1-10 Control Control Control Control Control Control Code Efficiency Code Cod	Air Pollutent Sn	ecific Information												
1-10 Equipment Eduipment CAS Number Proposed Emission Rates Current Change, Compliance Continuous Change, Compliance Estiting at Average Maximum Annual Annual Unchanged Estiting at Average Maximum Annual Annual Ordere, or Method Estiting at Average Maximum Annual Annual Ordere, or Method Estiting at Average Maximum Annual Ordere, or Method Estiting at Average Maximum Annual Ordere, or Method Estiting at Average Annual Ordere, or Method Estiting at Average Ordere, or Order	Fmission Point	ID No. (Alternate I	H	Control	HAP/	TAP				Permitted			L	
ter (PM ₁₀) te		1-10			CAS Ne	mber	Propose	d Emission Rad	tes	Emission Rate (Current)	Add, Change, Delete or	Continuous Compliance	Concent	ration in Gases
ter (PM ₁₀) (105m ₁₁	Pollutant		<u> </u>			Ave		daximum	Annual	Annual	Unchanged	Method		
ter (PM ₁₀) 3 3 4,98 4,98 4,98 1,25 1,25 1,25 1,28 1,26 1,26 1,29 1,25 1,29 1,25 1,29								(112)	0.16	2/8	\ 			or/etd 83
s 4.98 4.98 1.25 r/a A ide 0.62 0.62 0.16 r/a A cluding those listed below) 0.07 0.07 0.07 0.02 r/a A cluding those listed below) 0.0075-07-0 0.003 0.003 <0.01	Particulate matter	(PM ₁₀)					3 5	1000	10.05	n/a	<			ov vd mgg
ide cluding those listed below) 00075-07-0 0.003 0.003 0.003 0.003 0.001 1/4 A A A A A A A A A A A A A A A A A A A	Sulfur dioxide		+			7 ▼	15.00	4 98	1.25	r/a	<			ppm by vol
cluding those listed below) cluding those listed below) 00075-07-0 0003 0003 0003 0003 0003 0004 0004 0004 0004 0004 0004 0004 0005 0005 0007 00	Nitrogen oxides							690	91.0	n/a	•			ov yd mdg
Cluding mose fisted below) Cluding mose fisted below) 0.0075-07-0 0.003 0.003 0.003 0.003 0.003 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004	Carbon monoxide	Section 1 Section 1						10.0	0.02	1/8	\			lov yd mdd
00071-43-2 0.003 0.003 <0.01 n/a A A	Total VOC (includ	ing mose listed below			00075	-	03	0.003	<0.01	ıva	<			ppm by vol
$\frac{1}{10000000000000000000000000000000000$	Acetaldenyde				00071	\vdash	303	0.003	<0.01	n/a	\			ppm by vol
	Senzene			<u> </u>	00000	-	40,	0.004	<0.01	n/a	٧			loy vá maa

Emissions Inventory Questionnaire (E1Q) for Air Polutants Emissions Inventory Questionnaire (E1Q) Emissions Inventory Questionnaire (E1Q) Emission Inventory Questionnaire (E1Q) Emi						State	State of Louisians	81				:	Date	Date of submittal	_	
Descriptive Name of the Emissions Source (Alk Name) Court Roller Tank Court Roll	الدارنين ا				•			FIO. 65- 4::	Dollatonte					0.00		
Clark Relief Tank Clark Relief Tank Control Clark Relief Tank Relief Tank Clark Relief Tank Relief Tank Relief Tank Relief Tank Clark Relief Tank			Emissions	Invent LOOP,	ory Quesi LLC Port C	nonnaire (Jompiex - La	afourche Parish	Politikants				8	2010	-		
Clotchy Dome Litting Longitude 23	Emission Point 1D No. (.	Alternate	Descriptive	Name of the I	Emissions	Source (Alt.	Name)		1dV	proximate Location	n of Stack or	Vent (see instru-	ctions)			
Condition Discussion Disc	(OI 1-78			Crude	Relief Tan	* ~		Method UTM Zone		Horizon	nknown* 766300			m NAD27 263500 mN	7	
District Tempo Subject Item	ID No.			any count	•		Latitude	65/8		L .	21		ı	स् स		
	FOT003							0								
Notice Proper P	Stack and Discharge	L	r Stack	Height of St	_	Stack Gas Ex	_	Cas Flow at	Stack Gas Exit	Normal Opera		Date of	Percei	ot of Annual or Through Th	2	
10 10 10 10 10 10 10 10	Physical Characteristic: Change? (yes or no)		:a (ft ²)	Above Gradi	<u> </u>	Velocity	Stand	ditions, <u>not</u> st dard (ft³/min)	remperature (4F)	time (hours per ye		odification	Emi	sion Point	}	
Type of Fuet Used and Heat Input (AMBTUNe) Type of Fuet Used and Heat Input (AMBTUNe) Input (AMB	00								1		hr/yr		\vdash	Sep	हं अ	
Type of Fuel Used and Heat I mput (see instructions) Normal Operating Rate/Throughput												onstructed		\$	• • • • • • • • • • • • • • • • • • •	
Type of Fact Parenteer Parenteer Description		Cuna of Tital Head	and Heat I	noint (see ins	truction					Operating Pari	meters (incl	ude units)				
A	_	Ture of Guel	TIO HEAL	Heat Ir	MW June	18TU/br)	— Т			-	Parameter		Descr	iption	П	
Design Capacity/Volume Design Capacity Design Ca		type of ruci			10.4	7	 T	Normal Operating	Rate/Throughput		23.1		MM	gal/yr		
Notes Notes Notes Notes Shell Height (f) æ .	1748					T	Maximum Operat	ing Rate/Throughp	ınt							
Park Diameter (ft) Permitted Permitted on Point D No. Alternate ID) Control	, ,						Ι	Design Capacity/	Volume		2.31		MM	l gal		
Tank Diameter (ft) Tank Diameter (ft) Tank Diameter (ft) Fixed Roof Floating Roof External Control Control Average Maximum Annual			Notes					Shell Height (ft)					ا			
Ligh Life Control Control HAP/TAP Average Maximum Annual Annual Annual Continuous Continuous Continuous Compliance Exiting at Exiting at Continuous Compliance Exiting at Continuous Compliance Exiting at Continuous Compliance Exiting at Continuous Continuous <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Tank Diameter (fi</th> <th>6</th> <th></th> <th>100</th> <th></th> <th>و</th> <th>Į.</th> <th>T</th>								Tank Diameter (fi	6		100		و	Į.	T	
Jutant Specific Information Fixed Roof Continuous Continuous <th colspa<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ł</td><td>1.</td></th>	<td></td> <td>ł</td> <td>1.</td>														ł	1.
uiant Specific Information Permitted Permitted Add, Continuous Continuous <th cols<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>İ</td><td>d Roof</td><td>Floating Ro</td><td></td><td>External</td><td>7</td><td></td><td>T</td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>İ</td> <td>d Roof</td> <td>Floating Ro</td> <td></td> <td>External</td> <td>7</td> <td></td> <td>T</td>								İ	d Roof	Floating Ro		External	7		T
Control Cont	Air Pollutant Specific	Information													Ī	
1-78 Code Efficiency Code Efficiency Compliance Complian	Emission Point 1D N	io. (Alternate ID)	Control Equipment	Control Equipment	HAP /	TAP	Prof	posed Emission R	lates	Permitted Emission Rate	Add,	Continuous			:	
Cincluding those listed below) Annual (thors/hr) Annual (tons/yr) An	87-1		J Code	Efficiency		 .	-			Content	Delete, or	Compliance	Exiti	ing at Stack	;	
C(including those listed below) 0007143.2 0.38 0.38 1.65 1.65 U zene 00104143.2 <0.01	Pollutant					<u> </u>	Average (lh/hr)	Maximum (lbs/br)	Annual (tons/yr)	Annual (tons/yr)	Unchanged				-	
Continuing titose trace occur) Co071-43-2 Co01 Co01 Co02 U Co01 Co01 Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 U Co01 Co01 U Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 Co01 Co01 U Co01 U Co01 Co01 U Co01 U Co01 U Co01 U Co01 U Co01 Co01 Co01 Co01 U Co01 Co01 Co01 U	Total My Only	Corolled helper				+	0.38	0.38	1.65	1.65	n			ppm by v	ò	
zene 00100-41-4 <0.01 <0.01 <0.01 <0.01 <0.01 U inced isomers) #N/A <0.01	Total VOC (Including to	Ose usien ociom)			00071	43.2	<0.01	<0.01	0.02	0.02	n			урт бу у	lov	
11xed isomers) 00108-88-3 <0.01 <0.01 0.01 0.01 U Ward isomers) 0010-54-3 <0.01 <0.01 0.02 0.02 U	Denzene Cal. 1				8	4 4	10.0>	<0.01	10:0>	<0.01	ח			ppm by v	, o	
ixed isomers) #N/A <0.01 <0.01 0.01 0.01 U U O0110-54-3 <0.01 <0.01 0.02 0.02 U	Ethyl Denzene				80100	88-3	10.0>	<0.01	10:0	10.0	Ü			v yd mgg	lov	
100110-54-3 <0.01 <0.01 0.02 0.02 U	V. Jane /mixed includer)				Ž	\ <	<0.01	<0.01	10:0	10.0	,			v yd mgg	Ş	
	Aylene (mixed isomets)				00110	-54-3	<0.01	<0.01	0.02	0.02	Ų			v yd mgg	ļo	

					State of	te of Louisiana	8					Date	Date of submittal
			Emissions Inventory Que	s Invent	ory Questic	onnaire (E	estionnaire (EIQ) for Air Pollutants	Pollutants				Ö	2010
				LOOP,	LUOP, LLC FOR CO	mpiex - Lai	Complex - Lalourche Farish						
Emission Point	Emission Point ID No. (Alternate		Descriptive Name of the Emissions Source (A	E Emissions	Source (Aft. N	ift Name)		App	Approximate Location of Stack or Vent (see instructions)	n of Stack or V	/ent (sec instru	ctions)	
*,	ID) S-78		Slo (Small	Slop Oil Tank (Small Boat Harbor)	Ę		Method UTM Zone		27,*Un Horizontal	771500	·	Vertical 3;	3223800 mN
Tempo Subj	Tempo Subject Item 1D No. FOT004	· 					Latitude	90	12	, <i>,</i>	36		12 hundredths 18 hundredths
Stack and Discharge Physical Characteristics Change? (yes or no)		Diameter (ft) or Stack Discharge Area (ft²)	Height of Stack Above Grade (ft)		Stack Gas Exit Velocity	Stack (Condit Standa	Stack Gas Flow at Conditions, <u>nof</u> at Standard (ft ³ /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)		Date of Construction or Modification	Percen Throughpu Emis	Percent of Annual Throughput Through This Emission Point
ou		17/8 ft	n/a	ft 17/a	ft/sec	r/a	ft^3/min	n/a °F	8,760	hr/yr		 	Jul- Sep
		H.								8	constructed	%67 %67	%C7
-	Type o	Type of Fuel Used and Heat Input (see instructions)	at Input (see in	struction	<u>3</u>				Operating Parameters (include units)	meters (incl	ude units)		
Fuel		Type of Fuel	Heat	Heat Input (MMBTU/hr)	(BTU/hr)					Parameter		Description	ption
8		n/a				<u>Z</u>	ormal Operating	Normal Operating Rate/Throughput		84,000	+	gal/yr	Ĭ,
۵						<u>~</u> 	laximum Operatii	Maximum Operating Rate/Throughput			1		
ပ						<u>□[</u>	Design Capacity/Volume	olume		79,315	-	lag g	_
		Notes				<u>1</u>	Tank Diameter (R)			30		lee!	
						<u> </u>	Fived Book	Jone 1	Floating Roof		Fytemal		Internal
Air Pollutent	Air Pollutent Specific Information	ation				1			9				
Emission Po	Emission Point ID No. (Alternate ID)	(D) C		HAP / TAP CAS Number	TAP	Prond	Proposed Emission Rates	<u> </u>	Permitted Emission Rate	Add,	Continuous	1	
	5-78	Code	Efficiency						(Current)	Change, Delete, or	Compliance	Concentr Exitin	Concentration in Gases Exiting at Stack
Pollutant					٠- -	Average (Ib/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	DOUGLAN		
Total VOC (inc	Total VOC (including those listed below)	ed below)				<0.01	<0.01	0.01	10.0	n			lov yd mgg

					State of Lonisians	eiana					Date o	Date of submittal	_
			Emissions Inventory Qu	Inventory	Questionnai	estionnaire (EIQ) for Air Pollutants	· Pollutants				<u>8</u>	2010	
			1	LOOP, LLC	Port Complex	LOOP, LLC Port Complex - Lafourche Parish		•					Ī
Emission Point ID No. (Alternate	Aternate	Descriptive	Descriptive Name of the Emissions Source (missions Sou	rce (Alt. Name)		1d v	Approximate Location of Stack or Vent (see instructions)	of Stack or V	ent (see instruc	tions)		
ID) 7.78			Turbine	Turbine Generator		Method	!				Detum		Ī
			(Clovel	(Clovelly Dome)		UTM Zone	9	Horizontal		mE ver	Vertical	mN hundredths	v
Tempo Subject Item ID No.	D No.					Longitude	• <u> </u>			.		hundredths	, v
ЕОТ005		·						ļ	-				T
Stack and Discharge		or Stack	Height of Stack	Ste	Exit	Stack Gas Flow at	Stack Gas Exit	Normal Operating		Date of	Percent	Percent of Annual Thronehout Through This	.2
Physical Characteristics Change? (yes or no)	Discharge Area (R²)	rea (n²)	Above Grade (ft)		Velocity	Conditions, <u>not</u> at Standard (ft³/min)	(F)	(hours per year)		Modification	Emiss	Emission Point	
S,		æ	Ħ		ft/sec	ft^3/min	ř.		hrfyr		Jan- Apr- Mar Jun	Jul-Sep Oct-	÷ 8
		R²				-					_		
	Type of Enel Head and Heat Input (see instructions)	and Heat I	nout (see inst	ructions				Operating Parameters (include units)	meters (incl	ude units)			
	Type of Fuel		Heat In	Heat Input (MMBTU/hr)	J/hr)				Parameter		Description	tion	
S S S S S S S S S S S S S S S S S S S	an i la ad I i					Normal Operating	Normal Operating Rate/Throughput						T
مار						Maximum Operal	Maximum Operating Rate/Throughput						Ţ
ű						Design Capacity/Volume	Volume						T
		Notes				Shell Height (ft)	=						
						1 mix Cimilatei (1							
						Fixa	Fixed Roof	Floating Roof		External		Internal	Т
Air Pollutant Specific Information	nformation												T
Emission Point ID No. (Alternate ID)	(Alternate ID)	Control	Control	HAP / TAP	-			Permitted Emission Rate	Add.				-
7-78		Code	Efficiency			Proposed Emission Rates	Rates	(Current)	Change, Delete, or	Compliance	Concentra	Concentration in Gases Exiting at Stack	
Pollutant					Average	_	Annual	Annual	Unchanged				
					(lb/hr)	(1DS/Br)	(tonkyr)	(1000)	1			100	Ţ
Particulate matter (PM ₁₀)					0.00	00:00	00:00	0.52	n -			gr/std if	Ţ
Sulfur dioxide					00:0	00:00	0.00	21.90	2			pow by voi	<u>.</u>
Nitrogen oxides					00:00	0.00	0.00	38.16	۵			ppm by vo	<u>.</u> [
Carbon monoxide					00:00	00'0	0.00	0.14	۵			ppm by vol	٦
Total VOC (including those listed below)	se listed below)				00:00	00:0	00:00	0.02	D			ppm by vol	2
2													

						State of	State of Louisiana	a					Dat	Date of submittal	
				Emissions	Invent	ory Questio	nnaire (E	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				Dec	2010	
					LOOP,	LOOP, LLC Port Cor	mplcx - Laf	Complex - Lafourche Parish							
Emission Point ID No. (Alternate	ID No. (Alt	ernate	Descriptive	Name of the	Emission	Descriptive Name of the Emissions Source (Alt. Name)	'ятс)		ldv	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instruct	tions)		
- =	1D)		Fourch	Fourchon Booster Station No. 2 Fuel Tank	tion No. 2	2 Fuel Tank No.1	_	Method		27,*Ut	27,"Unknown"			Datum NAD27	
								UTM Zone		Horizon	774800	mE Vertical			Ž:
Tempo Subject Item 1D No.	ect Item 1D	, oʻ						Latitude	30	6		30		23 hundredths	dths
EQ	EQT006	•••													
Stack and Discharge Physical Characteristics	scharge icteristics	Diameter (ft) or Stack Discharge Area (ft ²)	or Stack	Height of Stack Above Grade (ft)		Stack Gas Exit Velocity	Stack	Stack Gas Flow at Conditions, not at	Stack Gas Exit Temperature	Normal Operating Time		Date of Construction or	Perce Through	Percent of Annual Throughput Through This Emission Point	This
Change? (yes or no)	s or no)						Stands	Standard (ft'/min)	€	(nonts ber year)				1331011 1 01111	
OL		n/a	<u></u>	n/a	- <u>7</u>	fl/sec	n/a	ft^3/min	n/a %F	8,760	hr/yr		Jan- A	Apr. Jul. O Jun Sep D	Dec -
		-	η,									constructed		<u> </u>	2
-	 }	Two of Fire Med Heat Innut (see instructions)	and Heat Ir	anut (see ins	truction	(\$1				Operating Parameters (include units)	meters (incl	ude units)			
	-	Type of Fuel	-	Heat Ir	nput (MN	Heat Input (MMBTU/hr)					Parameter		Desc	Description	П
_		n/a					ız T	ormal Operating	Normal Operating Rate/Throughput		23		MM	MM gal/yr	
ما								faximum Operati	Maximum Operating Rate/Throughput	ūt					
<u>].</u>							<u> </u>	Design Capacity/Volume	Volume		1.18		Ñ	MM gal	
			Notes				ĪΝ	Shell Height (ft)			22		f	feet	
							<u> </u>	Tank Diameter (ft)			001			leet	
								D Fixed	Fixed Roof	Floating Roof	ıf 🖸	External		Internal	멸
Air Pollutant Specific Information	Specific Infe	ormation													
Emission Pol	int 1D No. (Emission Point ID No. (Alternate ID)	Control	Control	HAP / TAP	TAP				Permitted	:		,		
_	82-11		Equipment Code	Equipment Efficiency	CAS Number	n D D C L	Prope	Proposed Emission Rates	la fes	(Current)	Add, Change, Delete, or	Continuous	Concen	Concentration in Gases Exiting at Stack	20
Pollutant						*	Average	Maximum (lhs/hr)	Annual (tons/vr)	Annual (tons/vr)	Unchanged	Welloon Welloon			
Total VOC (including those listed below)	udino those	liered below)					010	0.10	0.46	0.46	ח			lov de mod	Ş
Benzene	aram Guinn	()			00071-43-2	ŀ	<0.01	<0.01	<0.01	<0.01	ח			ppm by vol	, vol
Bihyl henzene					00100414	_	<0.01	<0.01	<0.01	<0.01	n			lov yd mdd	lov ,
Toluene					00108-88-3		<0.01	<0.01	10.0	10'0	n			ppm by vol	vol
Xylene (mixed isomers)	somers)				#N/A		0.01	10.0	0.03	0.03	n			ppm by vol	vol

					State	State of Louisiana	na					Date	Date of submittal	
			Emissions Inventory	Inven		tionnaire (Questionnaire (EIQ) for Air Pollutants	Pollutants				<u>a</u>	2010	
_				LOOP	LOOP, LLC Port	Complex - La	Port Complex - Lafourche Parish							
Emission Point ID No.		Descriptive	Descriptive Name of the Emisslons Source (Alt. Name)	Emisslor	as Source (Al	t. Name)		App	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instru	ctions)		
(Alternate ID)		Salt Dome	Salt Dome Cavities (9) Piping and Brine Storage Resevoir	oing and l	Brine Storage	Resevoir	Method		27,"U	27,"Unknown"		Dettu	줐	
01-71			(Clov	(Clovelly Dome)	ic)		UTM Zone		Horizontal	766300		Vertical 3	~	_ ;
Tempo Subject Item ID No.							Longitude	90 0	28	· , - ,	. 61	11	18 hundredths	2 E
-	Diameter (ft) or Stack	Stock	Height of Stark	┝	Stack Gas Exit	F	Stack Gas Flow at	Stack Gas Exit	Normal Operating	ting	Date of	Perce	Percent of Annual	Π
Physical Characteristics Change? (yes or no)	Discharge Area (ft²)	a (ft²)	Above Grade (ft)		Velocity		Conditions, not at Standard (ft³/mln)	Temperature (*F)	Time (hours per year)		Construction or Modification	Throughp Emi	Throughput Through This Emission Point	- Si
<u>б</u>	n/a R		n/a	≥	n/a N/sec	cc n/a	a ft^3/min	n/a °F	8,760	hrfyr		\rightarrow	Sep	÷ 2
	fl.	~									constructed	25% 25%	% 25% 25%	<u>, </u>
Type o	Type of Fuel Used and Heat Input (see instructions)	and Heat	'nput (sec in:	structio	ns)				Operating Parameters (include units)	meters (inc.	lude units)			
Fuel	Type of Fuel		Heat	Heat Input (MMBTU/	MBTU/hr)					Parameter		Descr	Description	Ĩ
a	n/a						Normal Operating	Normal Operating Rate/Throughput		009		MM	MM bblyr	Ī
a							Maximum Operat	Maximum Operating Rate/Throughput	Tu.		-			Ī
O							Design Capacity/Volume	Volume		1,806	-	Ψ¥	MM gal	T
		Notes				<u> </u>	Shell Height (ft)	_			+			T
·••							Tally Digillered (11)				-			П
							Fixed	Fixed Roof	Floating Roof	of 🗆	External		Internal	
Air Pollutant Specific Information	ıation				•									T
Emission Point ID No. (Alternate ID)	(QI	Control	Control	HAP	HAP / TAP				Permitted	:				
12-78		Equipment Code	Efficiency	CASS	CAS Number	e G	Proposed Emission Rates	bits	(Current)	Add, Change, Delete, or	Continuous	Concent	Concentration in Gases Exiting at Stack	-
Pollutant					<u></u>	Average	Maximum	Annual	Annual	Unchanged	Nama.			
						(lb/hr)	(lbs/hr)	(tons/yr)	(tons/yr)				•	Ţ.
Total VOC (including those listed below)	ed below)					0.40	0.40	1.74	1.74	ם			phu by val	ē .
Benzene				0000	00071-43-2	<0.01	<0.01	10.0	10.0	Ω			ppm by vol	-
Cumene				6000	00098-82-8	<0.01	<0.01	<0.01	<0.01	n			ppm by vol	ᇹ
Ethyl benzene				00100	00100-41-4	<0.01	<0.01	10.0	10'0	n			ppm by vol	-
Toluene				00100	00108-88-3	<0.01	<0.01	0.02	0.02	n			ppm by vol	_
Xylene (mixed isomers)				V#	#N/A	0.01	0.01	0.02	0.02)			lov vd mdd	<u>.</u>
n-Fiexane				00110	00110-54-3	<0.01	<0.01	0.01	0.01	n			ppm by vol	밁

Function Fig. Function Robert Signific Name of the Function Robert Signific Name							State of	State of Louisiana						Date	Date of submittal	
Peacripine Name of the Finisions Source (Alt Name) Approximate Lecation of Stack or Vent (teet instructions) Approximate Lecation of Stack or Vent (teet instructions) Citocelly Dome)				144	Imissions I	Invento LOOP, I	ory Question LC Port Com	n naire (EI) plex - Lafou	Q) for Air	Pollutants				Dec		0
Fourchon Booster Station No. 2 Four Chon Booster Station No. 2 Four Chon Booster Station No. 2 Four Chord Booster Station No. 2 Four Chord Booster Station No. 2 Four Chord Booster Station No. 2 Four Chord Booster Station No. 2 Four Chord Booster Station No. 2 Four Chord Booster Station No. 2 Four Chord Booster Station No. 2 Four Chord Booster Chord Boost	Emission Point	t ID No. (Al		escriptive ?	Vame of the E	missions	Source (Alt. Na.	me)		ddγ	roximate Location	of Stack or	Vent (see instru-	ctions)		
Discharge Area (Rt) or Stack Height of Stack Case Edit Stack	- <u></u>	1D) 3-78		Fourchor	n Booster Stati (Clovel	on No. 2 [Iv Dome)	Fuel Tank No. 2		Method UTM Zone		27, Uni Horizontal	8		1	1m NAD27 3228300 m	길
Discharge Area (if') or Stack Height of Stack Gas East East Gas East Gas East East Gas East East East East East East East Ea	Tempo Subj	ject Item II	No.						Latitude	-	-				1	dths
Discharge Area (It) Above Grade (It) Velocity Stark Gas Exit Sta	Ò3	2T008			i					1 1						
10	Stack and Dis Physical Chara Change? (yes	ischarge acteristics s or no)	Diameter (ft) or St Discharge Area (f		Height of Sta Above Grade		tack Gas Exit Velocity	Stack Gi Conditic Standare	us Flow at us, <u>not</u> at I (ft ³ /min)	Stack Gas Exit Temperature (°F)	Normal Operat Time (hours per yea		Date of istruction or odification	Perce Throughp Emi	nt of Annual out Through T ission Point	This
Type of Fact Used and Heat Input (AMBTUAns) Amailan Operating Rate-Throughput Perameter (include units) Description	ou	1		<u>. 21</u>				n/a	.9			ır/yr		\vdash	Jul- Sep	Dec 5
Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (MMBTU/Inc) Iteat Input (Inc) Iteat Input (Input (Inc) Inc) Iteat Input (Input			ft²									٥	onstructed			<u> </u>
Type of Fuet		7	on of Enal Isad and	1 Heat In	nut (see inst	ruction.					Operating Parau	meters (incl	ude units)			
Decign Capacity According Rate Throughput Decign Capacity Acolume Decign Capacity D		<u>, </u>	Type of Fuel		Heat In	out (MM	BTU/hr)	<u> </u>			 - -	Parameter		Desci	ription	
Notes Notes Notes Notes Notes Notes Notes Notes Notes	<u></u>		n/a	-				Į <u>ž</u>	mal Operating	Rate/Throughput		23		MM	gal/yr	
Notes Notes Notes Notes Shell Height (ħ) 1.18 NM gal NM gal Shell Height (ħ) 1.00 1.00 Shell Height (ħ) 1.00 1.00 Shell Height (ħ) 1.00 1.00 Shell Height (ħ) 1.00 1.00 1.00 Shell Height (ħ) 1.00 1.00 Shell Height (ħ) 1.00 1.00 Shell Height (ħ) 1.00 1.00 Shell Height (ħ) 1.00 1.00 Shell Height (ħ) 1.00 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00 Shell Height (ħ) 1.00	<u>ا</u> م							Ma	cimum Operati	ng Rate/Throughp	nt					
Tank Diameter (ft) Tank Diameter (ft) Tank Diameter (ft) 100 feet	٥	-					:	<u></u>	ign Capacity/V	/olume		1.18		X.	4 gal	
Tank Diameter (ft)			Ž	1				She	Il Height (ft)			22		y	ect	
Information Control Control HAP / TAP Froposed Emission Rates Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Cod								Ţ	k Diameter (ft)			100		Į.	cet	
Information Control Control Control Control Control Control Control Control Control Control Control Equipment CAS Number Fquipment CAS Number Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code										Roof	Floating Roo		External			nal
Vo. (Alternate ID) Control Control HAP / TAP Proposed Emission Rates Permitted Add, Continuous (Canrent) Continuous (Canrent) Continuous (Canrent) Continuous (Canrent) Continuous (Canrent) Continuous (Canrent) Compliance (C	Air Pollutant	Specific In	formation													
lose listed below) Average (1bAr) Maximum (tonstyr) Annual (tonstyr) Annual (tonstyr) Method (tonstyr) lose listed below) 0.0071-43-2 <0.10	Emission Pa	oint ID No. 13-78	(a		Control Equipment Efficiency	HAP / CAS Nu	TAP	Propose	d Emission R	ates	Permitted Emission Rate (Current)	Add, Change,	Continuous	Concen	tration in Gas	1868
tose listed below) 0.00 (0	Pollutant						Å E	irage Arr)	Maximum (lbs/br)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method			
00071-43-2	Total VOC (incl	Anding those	listed helow)	1	1		0		0.10	0.46	0.46	Ω			ррт Бу	y vol
00100-41-4 <0.01 <0.01 <0.01 <0.01 <0.01 U 00108-88-3 <0.01	Benzene	com Simple	c marca colonia			00071-	-	101	<0.01	<0.01	<0.01	Ω			ppm by	y vol
00108-88-3 <0.01 0.01 0.01 U	Ethyl benzene			 		00100	-	101	10.0>	<0.01	<0.01	n .			ppm by	y vol
#N/A 0.01 0.03 0.03 U	Toluene				-	80100	-	101	<0.01	0.01	0.01	ņ			PPIII by	y vol
	X vlene (mixed)	(Somers)				/N#		01	0.01	0.03	0.03	D)			xq maa	loy X

			<i>∞</i>	State of Louisiana	siana					Taric of sacrifican	
		Emissions l	Inventory Q LOOP, LLC P	uestionnair ort Complex	Emissions Inventory Questionnaire (EIQ) for Air Pollutants LOOP, LLC Port Complex - Lafourche Parish	ir Pollutants sh				<u> </u>	2010
Emission Point ID No. (Alternate		Descriptive Name of the Emissions Source (Alt. Name)	missions Source	t (Alt. Name)	_	Ψb	Approximate Location of Stack or Vent (see instructions)	of Stack or Ve	nt (see instruc	tions)	
ID) 15-78	Fou	Fourchon Booster Station Standby Generator	ition Standby Ge	nerator	Method UTM Zone		Horizon	27,"Unknown" tal 774800 m	mE Vertical	Detu	1AD27
Tempo Subject Item ID No.	° Z				Latitude Longitude	de 29	6 01		30	23	hundredths hundredths
EQT009											
Stack and Discharge	Diameter (ft) or Stack	Height of Stack	Sta	Exit	Stack Gas Flow at	Stack Gas Exit	Normal Operating		Date of	Percent of Annual	Annual Leanet This
Physical Characteristics Change? (yes or no)	Discharge Area (ft')	Above Grade (ft)	(It) Velocity		Conditions, <u>not</u> at Standard (ft ³ /min)	l emperature (² F)	(hours per year)		Modification	rarougaput tarouga taus Emission Point	reugn inis Point
yes	0.57 A	16 ft		237.00 ft/sec	5,014 R^3/min	1 850 °F	1 005	hr/yr		 	
	H H							соп	constructed	•/C7 •/C7	25%
Type	Type of Fuel Used and Heat Input (see instructions)	Input (see inst	ructions)				Operating Parameters (include units)	neters (includ	le units)		
Fuel	Type of Fuel	Heat In	Heat Input (MMBTU/hr)	<u>.</u>				Parameter		Description	E
а	Diesel		5.6		Normal Operati	Normal Operating Rate/Throughput		805		dų	
٩					Maximum Ope	Maximum Operating Rate/Throughput	ង្គ	805		ф	
္					Design Capacity/Volume	y/Volume				ļ	
	Notes				Shell Height (ft)		}				
	Increased hours.				Tank Diameter (ft)	(u)				;	
					- G	Fixed Roof	Floating Roof		External	0	Internal
Air Pollutant Specific Information	ırmation										
Emission Point ID No. (Alternate ID)	(a		HAP/TAP				Permitted				
15-78	Equipment Code	Efficiency	CAS Number		Proposed Emission Rates	Rates	(Current)	Add, Change, Delete, or	Continuous Compliance	Concentration in Gases Exiting at Stack	n in Gases I Stack
Pollutant				Average	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method	1	
Particulate matter (PM.c)				0.56	0.56	0.14	0.07	၁			gr/std ft ³
Suffer dioxide				0.33	0.33	80.0	90:0	O .			ppm by vol
Nitrogen oxides				19.32	19.32	4,83	0.94	C			ppm by vol
Carbon monoxide				4.43	4.43	1.11	0.20	၁			ppm by vol
Total VOC (including those listed below)	isted below)			0.57	0.57	0.14	0.07	C		-	ppm by vol
Benzene			00071-43-2	0.004	0.004	<0.01	r/a	٧			ppm by vol

					State of Louisiana	uisiana			1			Date of	Date of submittal	_
			Emissions Inventory Qu	Inventory	Questionns	estionnaire (EIQ) for Air Pollutants	or Air P	ollutants				<u>D</u>	2010	
				LOOP, LL(LOOP, LLC Port Complex - Lafourche Parish	x - Lafourche	Parish							Ī
Emission Point ID No. (Alternate	lternate	Descriptive	Descriptive Name of the Emissions Source	missions Sou	irce (Alt. Name)			App	roximate Locati	on of Stack or	Approximate Location of Stack or Vent (see instructions)	tions)		
(D)			Small Boat H	Small Boat Harbor Fire Pump	QH QH	_≥	Method					Detum		Ī
8/-01					<u>.</u>	<u>. c</u>	UTM Zone		Horizontal		mE Vertical	ical	Nm sqba	
Tempo Subject Item ID No.	o No					<u> </u>	Latifude Longitude	· 					hundredths	
EQT010				ŀ		- ; ; ,	f						100000	Т
Stack and Discharge	Diameter (ft) or Stack	or Stack	Height of Stack		Stack Gas Exit	Stack Gas Flow at		Stack Gas Exit	Normal Operating Time	_	Date of Construction or	Throughput	rerrent of Annual Throughput Through This	9
Change? (yes or no)	Discharge Area (ff*)	ca (II.)	Above Grade			Standard (ft³/min)		£	(hours per year)		Modification	Emissi	Emission Point	
sak	•	Œ	Œ		ft/sec	45	ft^3/min	<u>;</u>		hr/yr		Jan- Apr- Mar Jun	Jul-Sep Oct- Dec	ں ئے
	-	H												
	Type of Firel Used and Heat Input (see instructions)	and Heat I	nout (see ins	tructions)		-			Operating Parameters (include units)	ameters (inc	lude units)			П
Fuel F	Type of Fuel		Heat In	Heat Input (MMBTU/hr	U/hr)					Parameter		Description	ion	П
 						Normal (Operating R.	Normal Operating Rate/Throughput						П
<u>a</u>						Maximu	m Operating	Maximum Operating Rate/Throughput						Ī
ن						Design (Design Capacity/Volume	nme						Ţ
		Notes				Shell Height (ft)	ight (fl)				1			Т
						Tank Di	Tank Diameter (ft)		$\frac{1}{1}$					Ţ
						0	Fixed Roof	Jool	Floating Roof	of D	External		Internal	П
Air Pollutant Specific Information	formation				,				ŀ					T
Emission Point ID No. (Alternate ID)	(Alternate ID)	Control	Control	HAP/TAP					Permitted Emission Rate	Add				
16-78		Code	Efficiency		-	Proposed Emission Rates	nission Rat	8	(Current)	Change, Delete, or	Continuous	Concentra	Concentration in Gases Exiting at Stack	
Pollutant					Average	_	Maximum	Annual	Annual	Unchanged				
• -					(lb/hr)	\dashv	(lbs/hr)	(tons/yr)	(tons/yr)				ľ	Ī
Particulate matter (PM ₁₀)					0.00	-	00:0	0.00	0.02	الم			gr/std ft	Ţ.
Sulfur dioxide					00:0		0.00	0.00	0.02	۵			loy yo mdd	<u>_</u>
Nitrogen oxides					00:00		0.00	0.00	0.35	Ω			low by wol	<u>, T</u>
Carbon monoxide					00.0		00.0	0.00	0.08	۵			ppm by vol	٦
Total VOC (including those listed below)	e listed below)			1	00:0		0.00	00'0	0.03	۵			ppm by vol	_

UTM Zone Longitude UTM Zone Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 19 Longitude 10 Remission Rate Remission Rates Current) Maximum Annual Charles Current) Red Emission Rates Current Consult (bashyr) Co						State of Louisiana	ouisiana						Date	Date of submittal
Descriptive Name of the Emissions Source (Alt. Name) Clovelly Dome - Operations Center Standby Generator Clovelly Dome - Operations Center Standby Generator Clovelly Dome - Operations Center Standby Generator Exhange Area (ft²) Above Grade (ft) Velocity October 18 ft 161.00 ft/sec Normal Operating Rate/Through Diesel Normal Operating Rate/Through Increased hours Code Edificiency Code Edificien				Emissions	Inventory	Questionn	ıaire (EIQ) for Air	Pollutants				<u>8</u>	2010
Descriptive Name of the Emissions Source (Alt. Name) Method					LOOP, LLC	2 Port Comp	lex - Lafour	che Parish						
17.78 Covelly Dome - Operations Center Standby Generator Covelly Dome - Operations Center Standby Generator Control	Emission Point ID No. (Al	lternate	Descriptive	Name of the E	missions Sou	irce (Alt. Nam	÷		dy	roximate Locati	on of Stack or	Vent (see instri	uctions)	
17-16 17-1	(QI		G. Allendo	ome - Operatio	ne Center Star	ndby Generator		Method		27,"U	nknown		Datun	Datum NAD27
EQT01 Lattitude Equipment Equipmen	8/-/		Cloverly D	ome - Operatio	MIS CELLICI SE	neoy centraling	_	UTM Zone		Horizontal	766300		Vertical 32	3263500 mN
FOTO 1	Tempo Subject Item II.	No.						Latitude	30 80	15		13	, j	
Stack Gas Exit	EOT011	, . <u>-</u> .												
18	Stack and Discharge	Diameter (ft) o	Stack	Height of Sta	Sta	k Gas Exit	Stack Gas	Flow at	Stack Gas Exit	Normal Oper		Date of	Percen	Percent of Annual
161.00 Pose 167.30 Pose 161.00 Pose 167.30 Pos	Physical Characteristics Change? (yes or no)	Discharge Are	a (ft²)	Above Grade		elocity	Condition Standard (s, <u>not</u> at (fr³/min)	Temperature (P)	Time (hours per ya		Construction or Modification	Inroughpt Emis:	Infoughput infough inis Emission Point
Type of Fuel Used and Heat Input (see instructions) Normal Operating Rate/Throughput	yes	0.67 ft		18 ft			6,759	_ft^3/min	865 °F	200	. hr/yr		\vdash	-lul-
Type of Fuel Used and Heat Input (see instructions)			~									constructed	25% 25%	6 25% 25%
Type of Fuel Heat Input (MMBTU/hr) Normal Operating Rate/Throughput		ne of Fuel Used	and Heat I	nout (see inst	tructions)		-			Operating Par	ameters (inc	lude units)		
Diese Acrime Diese Acrime A		Tyne of Fuel		Heat In	out (MMBT	U/hr)	<u> </u>				Parameter		Description	ption
Notes Notes Notes Notes	L ne	Diesel			4.7		Norm	nal Operating	Rate/Throughput		129		hp	
Notes Notes Shell Height (ft) Tank Diameter (ft) Tank Diameter (ft) Increased hours.	; a						Maxi	mum Operati	ng Rate/Throughp		1/9		hp	
Shell Height (ft) Tank Diameter (ft) Tank Diameter (ft)							Deği.	an Capacity/V	'olume			1		
Tank Diameter (ft) Tank Di			Notes				Shell	Height (ft)						
Specific Information Control Control Control Control Code Efficiency Average Maximum Annual (tons/yr) Fixed Roof Finating Roof 17-78 Code Efficiency Average (Ib/hr) Maximum Annual (tons/yr) Annual (ton		Incr	ased hours.				Tank	Diameter (ft)						
Specific Information Control HAP / TAP Proposed Emission Rates Permitted 17-78 Equipment Code Efficiency Efficiency Average Maximum Annual (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) Annual Annual (tons/yr) (tons/yr) Annual Annual (tons/yr) Annual Annual (tons/yr) Annual Annual (tons/yr) Annual Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/yr) Annual (tons/y					i		<u> </u> -	Fixed	Roof	Floating Rc	of o	External		Internal
Oint ID No. (Alternate ID) Control Control HAP / TAP Proposed Emission Rates Permitted Emission Rate (CAS Number CAS Number CAS Number CAS Number Code Average (Ib/hr) Maximum Annual (Lons/yr) Cournent) 17-78 Average (Maximum Annual (Ib/hr) Annual (Lons/yr) (Lon	Air Pollutant Specific In	formation												
Average Maximum Annual Annual (ter (PM10) (1bs/hr) (1bs/hr) (tons/yr) 5 0.27 0.07 0.04 5 16.10 16.10 4.03 0.64 ide 3.69 3.69 0.92 0.14 chuling those listed hellow) 0.47 0.47 0.12 0.05	Emission Point ID No.	(QI	Control Equipment Code	Control Equipment Efficiency	HAP/TAI CAS Numb	اد ا د	Proposed	Emission R	ates	Permitted Emission Rate (Current)	Add, Change,	Continuous Compliance		Concentration in Gases
ter (PM ₁₀) 15 15 16.10 1	Pollutant					Aver		faximum (lbs/hr)	Annual (tons/vr)	Annual (tons/yr)	Unchanged	Method		1
3.69 3.69 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Daniminte matter (PM.)					0.4	-	0.47	0.12	0.05	ပ			gr/std ft³
ide 16.10 16.10 4.03 0.64 1.09 ide 0.92 0.14 0.47 0.12 0.05	Culfur dioxide					0.2	7	0.27	0.07	0.04	S			ppm by vol
3.69 3.69 0.92 0.14 0.47 0.47 0.12 0.05	Nitrogen oxides					16.1	0	16.10	4.03	0.64	၁			ppm by vol
0.47 0.12 0.05	Carbon monoxide					3.6	6	3.69	0.92	0.14	٥			ppm by vol
	Total VOC (including those	e listed below)				0.4	7	0.47	0.12	0.05	٥			ppm by vol
11enzene 11enzene	Nenzene				00071-43-2	Ц	7	0.004	<0.01	n/a	V			ppm by vol

		Emissions	Inventor	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	naire (EIG) for Air F	ollutants				Dec	2010
			LOOP, LLC Port	LC Port Comp	Complex - Lafourche Parish	che Parish					į	
Emission Point ID No. (Alternate		Descriptive Name of the Emissions Source (A	Emissions S	Source (Alt. Name)) 	_	A PP	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instru	ıctions)	
1D)		Clovelly Dome - Emergency Chide Transfer	oency Corde	. Transfer Pump		Method		17,"U	27,"Unknown"		Date	Datum NAD27
9/-91			פרוור) כו מפר			UTM Zone	15	Horizontal	766300	mE Ve	Vertical 3	3263500 mN
Tempo Subject Item ID No.	ç					Latitude	8	77	. <u>.</u> -	. 4		
FOT012						Tougung	2			1		1
Stack and Discharge	Diameter (ft) or Stack	Height of Stack	┝	Stack Gas Exit	Stack Gas Flow at		Stack Gas Exit	Normal Operating		Date of	Perce	Percent of Annual
Physical Characteristics Change? (yes or no)	Discharge Area (ft²)	Above Grade (ft)	le (ft)	Velocity	Conditions, <u>not</u> at Standard (ft³/min)	19, <u>not</u> at (ft³/min)	Temperature (°F)	Time (hours per year)		Construction or Modification	Throughp Emi	Throughput Through This Emission Point
yes	0.6 A	16 ft		225.00 ft/sec	5,300	ft^3/min	880 °F	200	hr/yr		\vdash	Sep
	H ₂									constructed	25% 25%	% 25% 25%
- L	Type of Fuel Used and Heat Input (see instructions)	t Input (see in	structions		_			Operating Parameters (include units)	meters (inc	lude units)		
Fire	Type of Fuel	Heat	Heat Input (MMBTU/br)	TU/br)					Parameter		Descr	Description
8	Diesel		0.9		Nor	nal Operating F	Normal Operating Rate/Throughput		860		_	ф
ء ا					Max	imum Operatin	Maximum Operating Rate/Throughput		860	İ		hp
v					Desi	Design Capacity/Volume	dume					
	Notes				Shell	Shell Height (ft)						
	Increased hours	z;			Tank	Tank Diameter (ft)		_				
						Fixed Roof	\$oof	Floating Roof	٥	External		Internal
Air Pollusant Specific Information	rmation		!									
Emission Point ID No. (Alternate ID)	lternate ID) Control	Control	HAP / TAP	AP				Permitted	1	•		
18-78	Equipment Code	nt Equipment Efficiency	CAS Number	nber	Proposed	Proposed Emission Rates	ŝ	Emission Rate (Current)	Add, Change, Delete, or	Continuous Compliance	Concen	Concentration in Gases Exiting at Stack
Pollutant				Ave	-	Maximum	Annual	Annual	Unchanged	Memod		
				à	0.60	0,00	0.15	0.27	Ü			or/etd ft ³
Particulate matter (PM ₁₀)					0.00	0.35	600	0.25	U			lov de mad
Sulfur dioxide				20	20.64	20.64	5.16	3.83	Ç			ppm by vol
Carbon monoxide				4	4.73	4.73	1.18	0.82	၁			ppm by vol
Total VOC (including those listed below)	isted below)			19:0	19	19'0	0.15	0.30	၁			ppm by vol
Acetaldehyde			00075-07-0		0.00	00:00	00:00	<0.01	Q			ppm by vol
Benzene			00071-43-2		0.005	0.005	<0.01	<0.01	ם			ppm by vol
Formeldehode	!		00000	-	900	00.0	0.00	<0.01	_			lov vd maa

Emission Point ID No. (Alternate Descriptive Name of the Emissions Source of the Emission Source of the Emission Source of the Emission Source of the Emission Source of the E	Clov	Emissions Inventory Questionnaire (EIQ) for Air Pollutants LOOP, LLC Port Complex - Lafourche Parish Name of the Emissions Source (Alt. Name) city Dome - Portable Diesel Generator Height of Stack Above Grade (ft) Velocity Standard (ft)/min) 10 ft 10 ft Name of the Emissions Source (Alt. Name) Nathod UTM Zone Latitude 29 Longitude 90 Standard (ft)/min) (PR) Standard (ft)/min) 1,100 °F	Questionnaire (El Port Complex - Lafo	EIQ) for Air	Pollutants) 2	2010
meter (ft) or scharge Ares 0.33 ft 0.32 ft pe of Fuel Diesel	Clov	LOOP, LLC Por missions Source (Amissions Source (Amissions Source (Amissions Stack Gas (ft) Velocit	t Complex - La							
meter (ft) or scharge Ares 0.33 ft net Used a pe of Fuel	Clovelly Dome - Por Height of Sta Above Grade	rable Diesel Generable Diesel Generate (fr) (ft) Velocit	Alt Name)	Complex - Lafourche Parish						
npo Subject Item EQT013 ck and Discharge ical Characteristi ange? (yes or no) yes b b c	_	rable Diesel Generick Stack Gas (ft) Velocit	,	 	Vβ	Approximate Location of Stack or Vent (see instructions)	n of Stack or V	ent (see instruct	ions)	•
mpo Subject Item EQT013 ck and Discharge ical Characteristi ange? (yes or no) yes b b c	_	rable Diesel General (ft) Stack Gas	į	Melbod		27. Ur	27, "Unknown"		Datum NAD27	VAD27
EQT013 ck and Discharge ical Characteristical f Characteristics Characteri		Stack Ga Veloc	ator	UTM Zone		Horizontal	8	mE Vertical	<u> </u>	Nm 009
EQT013 ck and Discharge ical Characteristi ange? (yes or no) yes a b b c	ļ ————————————————————————————————————	Stack Ga Veloc		Latitude	90	1 28	•	13	93	hundredths
ck and Discharge ical Characteristi ange? (yes or no) yes b		Stack Ga Veloc n/8	١		L		-		1	
yes b b c	10 8	17/8	Exit	Stack Gas Flow at Conditions, not at	Stack Gas Exit Temperature	Normal Operating Time (hours per year)		Date of Construction or Modification	Throughput Through This Emission Point	Annual hrough This n Point
## A P P			fl/sec 212	ft^3/min	1,100 °F	200	hrýr		Jan- Apr- Mar Jun	Jul- Oct- Sep Dec
8 Q U							გ	constructed		
a .c. u						Operating Parameters (include units)	meters (incli	ide units)		
a Diesel	cat input (see that In	Heat Inout (MMBTII/hr)	<u> </u>				Parameter		Description	Ľ.
DISSEL		0.07	Γ	Normal Operating	Normal Operating Rate/Throughput		01		ηh	
				Maximum Operati	Maximum Operating Rate/Throughput	=	10		hp	
Notes				Design Capacity/Volume	/olume			+		
				Shell Height (ft)						
Increased nours.	ours.			Tank Diameter (ft)				-		
				Fixed	Fixed Roof	Floating Roof	٥	External		Internal
Air Pollutant Specific Information										
Emission Point ID No. (Alternate ID) Control Equipment 19.78 Code	rol Control nent Equipment le Efficiency	HAP / TAP CAS Number	Pro	Proposed Emission Rates	ates	Permitted Emission Rate (Current)	Add, Change, Delete, or	Continuous	Concentration in Gases Exiting at Stack	on in Gases It Stack
Pollutant		. 	Average (15/hr)	Maximum (lbs/br)	Annua! (tons/yr)	Annual (tons/yr)	Unchanged	Memod		
V 2007	+		0.02	0.02	0.01	0.0	S			Rr/std ft³
Particulate matter (PMIO)			0.02	0.02	0.01	0.01	. J			ppm by vol
Sulfur dioxide			0.31	0.31	80'0	0.14	Э			ppm by vol
Nitrogen oxides			0.07	0.07	0.02	0.03	ာ		i	ppm by vol
Caroon monoxide	-		0.02	0.02	10'0	10.0	Э			ppm by vol

Empirication Pater						State of Louisiana	ouisiana						Date of	Date of submittal
1,00P, LJC Port Complex - Lafourche Parish 1,00P, LJC Port Complex - Lafourche Parish 1,00P, LJC Port Complex - Lafourche Parish 1,00P, LJC Port Complex - Lafourche Parish 1,00P, LJC Port Complex - Lafourche Parish 1,00P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - Lafourche Parish 1,0P, LJC Port Complex - LJC Po				Emissions	Invento	ry Question	naire (El	Q) for Air	Pollutants				Õ	2010
Discharge Discriptive Name of the Emissions Source (Alt. Name) Method Approximate Location of Stack or Vent (see Instructions) Method Approximate Location of Stack or Vent (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Fuel Used and Heart Input (see Instructions) Library of Input (see Instructions)					LOOP, L	LC Port Comp	olex - Lafor	urche Parish						
	Emission Point ID No. (A	Viternate	Descriptive	Name of the L	missions !	Source (Alt. Nar	<u> </u>		Vβ	proximate Locati	on of Stack or	Vent (sec instru	ctions)	
UTINA Zone	(D)			Clovely	Fire Pump	ند د		Method		27,"L	'nknown"		Datum	NAD27
	87-07							UTM Zone	<u> </u>	Horizontal	771500	,	 _	3800 mN
	Tempo Subject Item I	D No.						Latitude	67			36	2 8	
Type of Fuel Used and Heat Input (See instructions) Type of Fuel Used and Heat Input (See instructions) Type of Fuel Used and Heat Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of Fuel Used Input (MMBTUhe) Type of	Stack and Discharge	Diameter (ft) 01	r Stack	Height of Sta	-	ack Gas Exit	Stack G	as Flow at	Stack Gas Exit	Normal Oper		Date of	Percent	of Annual
Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (MMBTU/hr) United and Heat Input (MMBTU/hr) United and Heat Input (MMBTU/hr) United and Heat Input (MMBTU/hr) United and Heat Input (MMBTU/hr) United and Heat Input (MMBTU/hr) United and Heat Input (MMBTU/hr) United and Heat Input (MMBTU/hr) United and Heat Input (MMBTU/hr) United and Annual United a	Physical Characteristics Change? (yes or no)			Above Grade	<u> </u>	Velocity	Condition	ons, <u>not</u> at d (ft³/min)	Temperature (°F)	Time (hours per y		nstruction or 1odification	Throughput Emissi	Through This on Point
Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) 1.92 Normal Operating Rate/Throughput 1.93 Normal Operating Rate/Throughput 1.93 Normal Operating Rate/Throughput 1.93 Normal Operating Rate/Throughput 1.93 Normal Operating Rate/Throughput 1.93 Normal Operating Rate/Throughput 1.93 Normal Operating Rate/Throu	yes	0.42 ห	\	12 A		238.00 fVsec	1,943	ft^3/min	185 °F	200	.hr/yr			
Type of Fuel Used and Heat Input (See instructions) Animal Operating Rate*Throughput Parameter Dieset Lipat Input (AMBTU/hr.) Normal Operating Rate*Throughput Dieset Lipat Input (AMBTU/hr.) Dieset Lipat (Amaximum Operating Rate*Throughput Dieset Lipat (Amaximum Operating Rate*Throughput Dieset Lipat (Amaximum Operating Rate*Throughput Dieset Lipat (Amaximum Operating Rate*Throughput Dieset Lipat (Amaximum Operating Rate*Throughput Dieset		æ	~.									constructed		25% 25%
Type of Fuel Heal Input (MMBTU/hr) Diese 1.92 Mormal Operating Rate/Throughbut 1.92 Maximum Operating Rate/Throughbut 1.92 Maximum Operating Rate/Throughbut Design Capacity/Yolume Shell Height (ft) Tank Diameter (ft	F	ype of Fuel Used 1	and Heat Ir	1put (see ins	tructions					Operating Par	ameters (inc	lude units)		
Diese Diese 192		Type of Fuel		Heat In	put (MMI	9TU/hr)					Parameter		Descript	ion
Specific Information Font Function F	a	Diesel			1 92		Noi	rmal Operating	Rate/Throughput		1.92		MMBTL	/hr
Specific Information Control Continuous Control	Ф						Σ	ximum Operatis	ng Rate/Throughpo	#				
Increased hours. Increased h	U						డ్	sign Capacity/V	olume					
Interested thours. Interes			Notes				AN F	ell Height (ft)					i	
Specific Information	-	Incr	eased hours.				E L	nk Diameter (ff)				-		
Specific Information Control IAP / TAP Proposed Emission Rates Permitted Add, Continuous Continuous <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Т.</td><td></td><td>Roof</td><td>Floating Rc</td><td></td><td>External</td><td></td><td>Internal</td></th<>							Т.		Roof	Floating Rc		External		Internal
Control Control IAP / TAP Equipment Equipment Equipment Equipment Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Comptiance Comptiance Comptiance Comptiance Comptiance Efficiency Comptiance Comptiance Efficiency Comptiance Comptiance Efficiency Comptiance Comptiance Efficiency Comptiance Efficiency Comptiance Efficiency Comptiance Efficiency Comptiance Efficiency Comptiance Efficiency Comptiance Efficiency Comptiance Efficiency Comptiance Comptiance Efficiency Comptiance Comptiance Efficiency Comptiance Comptianc	Air Pollutant Specific In	nformation												
ter (PM ₁₀) Average (IbAr) Maximum (Ibarhr) (tons/yr) Annual (tons/yr) Unchanged (Method (Ibarhr)) ster (PM ₁₀) (100 c) 0.59 0.59 0.15 0.01 C ster (PM ₁₀) (200 c) 0.56 0.14 0.01 C C ster (PM ₁₀) (200 c) 0.56 0.14 0.01 C C ster (PM ₁₀) (200 c) 0.20 0.14 0.01 C C side (200 c) 0.20 0.46 0.02 C C C cluding those listed below) 0.0050-00-0 0.002 0.002 c.0.01 A A A	Emission Point ID No 20-78	(QI	Control Equipment Code	Control Equipment Efficiency	HAP / T CAS Nun	nber	Proposi	ed Emission Ra	55	Permitted Emission Rate (Current)	Add, Change, Delete, or	Continuous Compliance	Concentral	ion in Gases at Stack
ter (PM ₁₀) (PM ₁₀)	Pollutant			 		Ave (By		Maximum (Ibs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged			
:3 0.56 0.56 0.14 0.01 C :3 8.46 2.11 0.08 C ide 1.82 1.82 0.46 0.02 C cluding those listed below) 0.057 0.67 0.077 0.017 0.01 C cluding those listed below) 0.0050-00-0 0.002 0.002 <0.017 A A	Particulate matter (PM o)					0	65	0.59	0.15	0.01				gr/std ft³
15 15 18<	Sulfur dioxide					0	99	0.56	0.14	0.01	C			ppm by vol
ide cluding those listed below) 00050-00-0 00050	Nitrogen oxides					8.4	91	8.46	2.11	0.08	ပ			ppm by vol
cluding those listed below) 0.050-00-0 0.002 0.001 0.017 0.01 C 0.001 0.002 0.001 n/a A	Carbon monoxide					1.1	32	1.82	0.46	0.02	U			ppm by vol
00050-00-0 0,00 <u>2</u> 0.002 <0.01 π/α A I	Total VOC (including thos	se listed below)				0.6	23	29.0	0.17	0.01	S			ppm by vol
	Formaldehyde				000020-0		02	0.002	<0.01	n/a	¥			ppm by vol

Normal Operating Rate/Throughput Design Capacity/Volume Charles Emission Rates Current) Charles Constituted Current Charles Constituted Current Charles Constituted Current Charles Current Charles Constituted Current Charles Current Charles Current Charles Constituted Current Charles Current Current Charles Current					State	of I onicion						Date of submittal	nital
Descriptive Name of the Emissions Street Case Entition of Stack or Veril (see instructions) Concily Dome - Standby Generator - Brites Stored Case Entit Increased hours Conditions and Heat Input (see instructions) Conditions and Heat Input (see instructions) Conditions and Heat Input (see instructions) Conditions are the increased hours Conditions Cond			2		State	oi couisian	 .I∩) 62 . Aiv	Dollistonte					
Clovelly Dome - Standby Generator - Brine Storage Reavoir Clovelly Generator - Brine Storage Reavoir Clovelly Generator - Brine Storage Reavoir Clovelly Generator - Brine Storage Reavoir Clovelly Generator - Brine Storage Reavoir Clov			z)	Missions Inv	entory Ques OP, LLC Port (Complex - Laf	ourche Parish					- Dec	2010
District Clovelly Dome - Standby Generator - Brine Stonge Reservoir District Clovelly Dome - Standby Generator - Brine Stonge Reservoir District Clovelly Dome - Standby Generator - Brine Stonge Reservoir District Clovelly Dome - Standby Generator - Brine Stonge Reservoir District Clovelly District Clovelly Distri	Emission Point ID No.		Descriptive N	ame of the Emis	sions Source (Alt	Name)		ldv	proximate Location	of Stack or V	ent (see instruct	ons)	
Dimeter (II) or Stack Height of Stack (Gas Enit Stack Enit Stack Enit Stack Enit Stack Enit Stack Enit Stack	1D) 21-78	<u>. </u>	ovelly Dome	. Standby Generat	or - Brine Storago	Resevoir	Method		27, Uni			-	727 MM
Diachaire Control Co	Tempo Subject Iten	n ID No.					Latitude	29			7 5	K	12 2
Diacharge Area (it) Above Gradt (in) Velocity Conditions, gal at Diacharge Area (it) Above Gradt (in) Velocity Conditions, gal at Diacharge Area (it) Above Gradt (in) Velocity Conditions, gal at Diacharge Area (it) Above Gradt (in) Velocity Conditions, gal at Diacharge Area (it) Above Gradt (in) Velocity Conditions Italian Itali	EOT015						TOUR HORSE						
Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (See instructions) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used and Hart Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Fuel Used Input (MBRU/hr) Type of Type	Stack and Discharge Physical Characteristi Change? (yes or no)	Ĺ		leight of Stack bove Grade (ft)	Stack Gas E. Velocity		Gas Flow at tions, <u>not</u> at rrd (ft²/min)	Stack Gas Exit Temperature (*F)	Normal Operation Time (hours per year	-	Date of struction or idification	Percent of An Throughput Thro Emission Po	nual ugh This iint
Type of Fuel Used and Heat Input (see instructions) Parameter (Insurance Instructions) Parameter (Insurance Instructions) Parameter (Insurance Instructions) Parameter (Insurance Instructions) Parameter (Insurance Insurance I	yes	<u> </u>	1	10 ft	212.00 fVse		ft^3/min	1,100 °F		ır/yı		Apr.	Dec
Type of Fuel Used and Heat Input (See instructions) Properating Parameters (Include units) Prepared		n²						,	••	8		\$2.57	
Type of Fuel Heaf Lipput (MMBTU/hr) Normal Operating Rate/Throughbut 108 hp hp		Type of Fuel Heed or	Heat Inn	nt (see instruc	tions				Operating Paral	neters (incli	ide units)		
Diese D		Type of Fuel		Heat Input	(MMBTU/hr)					Parameter		Description	
Notes Notes Notes Notes Notes		Diesel			80		lormal Operating	Rate/Throughput		108		hр	
Notes Notes Shell Height (ft) Tank Diameter	ء ا					2	faximum Operati	ing Rate/Throughp	1	801		ηh	
Tank Diameter (ft) Tank Di	0						esign Capacity/	Volume					
Tunk Diameter (ft) Fixed Roof Floating Roof External Determited Equipment Control HAP / TAP 21-78		2	otes			S	hell Height (ft)						
Specific Information		Increu	sed hours.				ank Diameter (ft	G	-				
Specific Information Permitted Permitted Add, Control of IAP / TAP Proposed Emission Rates Permitted Emission Rates Permitted Change, Continuous Content/anion Content/anion Content/anion Continuous Contentration 21-78 Code Efficiency Average Maximum Annual Annual Unchanged Exiting at Method ter(PM ₁₀) 0.24 0.24 0.04 0.01 C Method Congiliance ter(PM ₁₀) 0.24 0.24 0.06 0.01 C C C s 3.35 3.35 0.84 0.07 C C C s 0.72 0.72 0.72 0.01 C C C d 0.72 0.72 0.72 0.7 C C C d 0.72 0.7 0.7 C C C C								1 Roof	Floating Roo		External		Internal
Oint ID No. (Alternate ID) Control Control HAP / TAP Proposed Emission Rates Permitted Add, Current) Continuous Continuous Continuous Continuous Continuous Continuous Compliance Efficiency Control (IbAr) Courcent) Courcent Compliance Compliance Compliance Compliance Compliance Compliance Compliance Delete, or Meximum Annual (IbAr) Annual (IbAr) Annual (IbAr) Annual (IbAr) Compliance Complia	Air Pollutant Specific	c Information			:							:	
ter (PM ₁₀) Average Maximum Annual Annual Unchanged Method ser (PM ₁₀) (10,4)r) (10,4)r) (10,4)r) (10,4)r) (10,4)r) C C s.s 0.22 0.22 0.06 0.01 C C s.s 3.35 0.84 0.07 C C ide 0.72 0.72 0.72 0.72 C ide 0.72 0.72 0.72 0.07 C	Emission Point ID	(QI			AP / TAP S Number	Prope	osed Emission R	lates	Permitted Emission Rate (Current)	Add, Change,	Continuous Compliance	Concentration in	n Gases
ter (PM ₁₀) 10.24 10.24 10.24 10.06 10.01 10.05 10.01 10.05 10.01 10.05 10.01 10.05 10.01 10.05 10.01 10.05 10	Pollutant				<u> </u>	Average (Ib/br)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method		
3.35 0.22 0.06 0.01 C 3.35 3.35 0.84 0.07 C ide 0.72 0.72 0.18 0.02 C ide 0.72 0.72 0.07 C	Dardian late matter (DM				-	0.24	0.24	90.0	10.0	C		•	gr/std ft³
3.35 3.35 0.84 0.07 C c c c c c c c c c c c c c c c c c c	Suffic dioxide	6				0.22	0.22	90.0	0.01	C		PF	ppm by vol
le 0.72 0.72 0.18 0.02 C	Nitrogen oxides			-		3.35	3.35	0.84	0.07	J		PF	ppm by vol
027 0.07 0.01 C	Carbon monoxide		-			0.72	0.72	0.18	0.02	Ċ		PF	ppm by vol
	Total VOC (including the	hose listed below)				0.27	0.27	0.07	0.01	С		PF	ppm by vol

Point ID No. (Alternate Descriptive Name of the Emissions Sou 1D) 23-88 Subject Item ID No. EQT016 EQT016 Internate Discharge Area (ft.) or Stack Characteristics Discharge Area (ft.) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Notes Notes Control Equipment Equipment Equipment CAS Number Control Contr						State of Louisiana	onisiana						Date	Date of submittal
100P 11C				- missions	Inventor	v Ouestion	naire (EIO) for Air l	Pollutants				2	2010
18 19 19 19 19 19 19 19			•		LOOP, LL	C Port Comp	lex - Lafour	che Parish						-
190 1914 1915 1914 1	Emission Point ID No. (A		escriptive	Name of the E	missions So	urce (Alt. Nan	<u>(6)</u>		Vpp₁	roximate Location	of Stack or	/ent (see instru	ctions)	
13.58 1.0 1.	<u>@</u>		7	F	-1- 1	Cantar		Method		27.*Un	known"		Datu	m NAD27
Subject Hem 1D No. Stack Case Early Stack Case Case Case Case Case Case Case Case	73-88			any Donne - 1 ar	ilk i Operali	OIIS CCINE		UTM Zone		Horizontal	8		Ι΄	263500 mN
Equipment (i) or Stack Height of Stack Hei	Tempo Subject Item 1	D No.						Latitude Longitude	8 8	28		. 51		
	EQT016													
17 17 18 18 18 18 18 18	Stack and Discharge Physical Characteristics		tack (ft³)	Height of Sta Above Grade	Š	ck Gas Exit Velocity	Stack Gas Condition	Flow at 5, <u>not</u> at (10, 10, 10)	Stack Gas Exit Temperature	Normal Operal Time (hours per year	_	Date of struction or ndification	Percei Throughp Emis	at of Annual ut Through This ssion Point
Type of Fuel Used and Heat Input (teer instructions)	Ou los of the outline ou		<u>_</u>			fVsec	π/a	.5	-	8,760	nr/yr		\rightarrow	Jul- Sep
Type of Fuel Used and Heat Input (AMBTU/hr)				!								onstructed		25%
Type of Fuel		voe of Fuel Used an	d Heat In	put (see inst	tructions)		-			perating Para	meters (incl	ude units)		
Normal Operating Rate/Throughput Normal Operating Rate/Throughput Normal Operating Rate/Throughput Nortes Normal Operating Rate/Throughput Nortes Norte		Type of Fire		Heat In	nut (MMB)	TU/hr)				-	Parameter		Deser	iption
Maximum Operating Rate/Throughput Design Capacity/Volume 1000 Ret	i non.	17/4					E ON	nal Operating	Rate/Throughput		0006		gal	/yr
Notes Notes Notes Shell Height (ft) Tank Diameter (ft) Tank	ء ا						Maxi	mum Operatir	ng Rate/Throughpu		į			
Tank Diameter (ft)							Desig	yn Capacity/V	olume		0001		*	al
tiant Specific Information Tank Diameter (ft) 4 4 External feet tincluding those listed below) Control Control HAP/TAP Proposed Emission Rates Permitted Add, Courtent Control Countrol Add, Continuous Continuous			e te				Shell	Height (ft)			11		اق	Ct
Control Cont							Tank	Diameter (ft)			4	-	e e	5
Equipment Control Control Control Control Control Equipment CAS Number Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code C							o	Fixed	Roof	Floating Roo		External		
Control Control Control Control Control Control Continuous Continuous Continuous Continuous Continuous Continuous Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Code Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Exiting at Maximum Annual Annual Continuous Compliance Compliance Compliance Exiting at Michod Code C	Air Pollutant Specific 1	nformation												
Code Efficiency Proposed Emission Rates Current Change, Continuous Concentration Code Efficiency Average Maximum Annual Annual Annual Method Exiting at	Emission Point ID No	<u>ê</u>		Control	HAP/TA	٩. پر	Í			Permitted Emission Rate	¥qq,	:		
(including those listed below) Average Maximum (IbA)r) Annual (tons/yr) Annual (tons/yr) Unchanged (IDA)r) (including those listed below) 0.006 0.06 0.06 0.27 0.27 U 0.010-34.3 < 0.01	23-88			Efficiency			Proposed	Emission Ka	5)1	(Current)	Change, Delete, or	Continuous	Concent	ration in Gases
(including those listed below) (a) (a) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Pollutant					Yve.		faximum	Annual	Annual	Unchanged	יאובוווסמ		
(including those listed below) 0.006 0.06 0.27 0.27 U (including those listed below) 0.0071.43.2 <0.01						(IP/		(lbs/hr)	(tons/yr)	(tons/yr)				
0007143-2 <0.01 <0.01 <0.01 <0.01 U U 00108-88-3 <0.01	Total VOC (including the	se listed below)				0.0	90	90.0	0.27	0.27	U			ppm by vol
00108-88-3 <0.01 <0.01 <0.01 <0.01 I I 00110-54-3 <0.01	Benzene				00071-43		10	<0.01	<0.01	<0.01	Ú			ppm by vol
00110-54-3 <0.01 <0.01 <0.01 U	Toluene				00108-88		10	<0.01	<0.01	<0.01	Ω			ppm by vol
	n-Hexane				00110-54		01	<0.01	<0.01	<0.01	Ð			ppm by vol

					State of	State of Louisiana						Dat	Date of submittal	
			Emissions	Invento	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	nnaire (EIÇ) for Air	Pollutants				<u>D</u>	2010	
				LOOP, 1	LOOP, LLC Port Cort	Complex - Lafourche Parish	rche Parish							
Emission Point ID No. (Alternate) No. (Alternate	Descriptive	Name of the L	Emissions	Descriptive Name of the Emissions Source (Alt. Name)	tme)		ddV	Approximate Location of Stack or Vent (see instructions)	of Stack or V	ent (see instruc	ctions)		
â		ŧ	} (Method		27 "Unknown"	шмоп		D a t	Datum NAD27	
24-88	88	S	Clovelly Dome - 1 ank 2 Operations Center	ank 2 Oper	ations Center		UTM Zone		Horizontal	8		Vertical	3263500 mN	z
Tempo Subject Item ID No.	t Item ID No.						Latitude	29	7 8 1 15 '	' 	21.	1	54 hundredths 18 hundredths	함 함
EQT017	017						0							
Stack and Discharge		Diameter (ft) or Stack	Height of Stack		Stack Gas Exit	Stack Gas Flow at	Flow at	Stack Gas Exit	Normal Operating		Date of Construction or	Perce	Percent of Annual Throughput Through This	This
Physical Characteristics Change? (yes or no)	_	Discharge Area (ft*)	Above Grade (10)		v clocily	Standard (ft ³ /min)	(ft³/min)	(F)	(hours per year)		Modification	E	Emission Point	
no	n/a	٠.	n/a	ft n/a	fl/sec	n/a	ft^3/min	7. s/a	1 092,8	hrfyr		Jan- A Mar J	Apr- Jul- C	Dec -
	-	R²								8	constructed			7.7
	Type of Ruel Heed and Heat Input (see instructions)	ted and Heat	nout (see ins	truction	(8)	-			Operating Parameters (include units)	neters (incli	ude units)			
	T 7 T	7	1	Hant lanes (MMHTI/hr)	HTI/h.r.)	<u></u>			_	Parameter		Desc	Description	
lane!	lype of ruci					T S	nal Operating	Normal Operating Rate/Throughput		0006		80	gal/yr	
<u>.</u>	lva i					Max	imum Operatii	Maximum Operating Rate/Throughput						
,						Desi	Design Capacity/Volume	/olume		0001			gal	
,		Notes				Sel	Shell Height (ft)			11		_	feet	
						Tark	Tank Diameter (ft)			4			feet	
						<u> </u>	Fixed Roof	Roof	Floating Roof	0	External		O Internal	la I
Air Pollutant S.	Air Pollutant Specific Information													
Emission Poin	Emission Point ID No. (Alternate ID)		Control	IIAP / TAP	TAP				Permitted Emission Rate	Pud				
	24-88	Code	Efficiency	CASINE		Propose	Proposed Emission Rates	ates	(Current)	Change, Delete, or	Continuous	Concen	Concentration in Gases Exiting at Stack	Ş
Pollutant		.			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Average N	Maximum	Annual (tons/vr)	Annual (tons/yr)	Unchanged	Method			
1	franched heter lines of the	+				0.06	0.06	0.27	0.27	D			lov yd mqq	lov,
Total VOC (Incin	Lotal VOC (Including trose listed below)			00071-43-2	ļ.	<0.01	<0.01	<0.01	<0.01	U			ppm by vol	ı vol
Denzene				00108-88-3	-	<0.01	<0.0>	<0.01	<0.01	Ū			ppm by vol	vol
Olucino		+		00110-54-3	-	\$0.01	<0.0>	10.0>	10.0>	n			lov yd mgg	lov/
n-Hexanc				2										

					State of	State of Louisiana						Date	Date of submittal
			Emissions	3 Inven	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	nnaire (E	lQ) for Air l	Pollutants				<u>8</u>	2010
				L00P,	LOOP, LLC Port Complex - Lafourche Parish	nplex - Lafo	ourche Parish						
Emission Point ID No. (Alternate		Descriptive	Descriptive Name of the Emissions Source	Emission	18 Source (Alt. Name)	ame)		App	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instru	ctions)	
ID)		5	Cloudly Dome - Overnions Center Fire	Protions C	enter Fire Pump		Method		27,*Ur	27, Unknown		Date	Datum NAD27
16-96							UTM Zone	15	Horizontal	766300	.	Vertical	3263500 mN
Tempo Subject Item ID No.	a						Latitude	62	87		17		18 hunderedths
EOT019							Longitude	?					
Stack and Discharge	Diameter (ft) or Stack	Stack	Height of Stack	┝	Stack Gas Exit	Stack G	Stack Gas Flow at	Stack Gas Exit	Normal Operating	ting	Date of	Perce	Percent of Annual
Physical Characteristics Change? (yes or no)	Discharge Area (ft²)	(m²)	Above Grade (ft)	(L)	Velocity	Conditi	Conditions, not at Standard (ft ³ /min)	Temperature (°E)	Time (hours per yent)		Construction or Modification	Throught	Throughput Through This Emission Point
, , , , , , , , , , , , , , , , , , ,	6	_	. `	•	200,000,000			920 of	9	hrívr	_	Jan- Ap	Apr. Jul-Sep Oct-
	0.21	<u> </u>		⊥ :							- 7	25% 25	25% 25% 25%
				=		 					constructed		
Type	Type of Fuel Used and Heat Input (see instructions)	nd Heat I	nput (see in	structio	us)				Operating Parameters (include units)	meters (inc	lude units)	.	
Fuel	Type of Fuel		Heat 1	laput (M?	Heat Input (MMBTU/hr)					Parameter		Desci	Description
83	Diesel			3.5		ž	Normal Operating Rate/Throughput	Rate/Throughput		200		_	ф ф
a						<u>×</u>	aximum Operatin	Maximum Operating Rate/Throughput		200			hp
ů						<u>~</u>	Design Capacity/Volume	olume					
	~	Notes				<u>&</u>	Shell Height (ft)						ļ
	Increa	Increased hours.				<u>[]</u>	Tank Diameter (ft)						
						<u> </u>	☐ Fixed Roof	Roof	Floating Roof	J.	External		□ Internal
Alr Pollutant Specific Information	mation												
Emission Point ID No. (Alternate ID)	<u>e</u>	Control	Control	HAP	HAP / TAP				Permitted				
	-	Equipment	Equipment	CASN	CAS Number	Propos	Proposed Emission Rates	12	Emission Rate	Add,	Continuous	(
38-91		Ç	Efficiency			•			(Current)	Change, Delete, or	Compliance	Concen	Concentration in Cases Exiting at Stack
Pollutant					[*	Average	Maximum	Annual	Annual	Unchanged			
) 	(lb/hr)	(lbs/hr)	(tons/yr)	(tons/yr)				•
Particulate matter (PM ₁₀)						1.10	1.10	0.28	0.02	C			gr/std ft ³
Suffur dioxide						1.03	1.03	0.26	0.02	O			ppm by vol
Nitrogen oxides						15.50	15.50	3.88	0.34	S			ppm by vol
Carbon monoxide						3.34	3.34	0.84	0.07	၁			ppm by vol
Total VOC (including those listed below)	ted below)					1.24	1.24	0.31	0.03	J			ppm by vol
Acetaldehyde				0007:	00075-07-0	0.003	0.003	<0.01	n/a	<			ppm by vol
Benzene				0007		0.003	0.003	<0.01	n/a	<			ppm by vol
Formaldehyde)5000	0-00-05000	0.004	0.004	<0.01	n/a	۷			ppm by vol

				State of	State of Louisiana						Dat	Date of submittal	
		Emission	ıs İnven	ntory Questic	onnaire (E	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				<u></u>	2010	_
			LOOF	LOOP, LLC Port Co	mplex - Lafe	rt Complex - Lafourche Parish			·				
Emission Point ID No. (Alternate		Descriptive Name of the Emissions Source (Alt. Name)	e Emissio	ns Source (Alt. A	iame)		ddv	Approximate Location of Stack or Vent (see instructions)	n of Stack or	Vent (see instru	setions)		
(D)		Cloudy Dome - Fire School Pimm	y eig s	-hool Pirms		Method		27. Ur	27,"Unknown"		Dat	Datum NAD27	_
33-88		Cloveily boil		diam tooks		UTM Zone	15	Horizontal	766300	١.	Vertical	3263500 mN	z :
Tempo Subject Item ID No.	I					Latitude	29	28		21			S :
FOTOI8						Longitude	& &	2	_	. 61		18 hundredths	st S
	Diameter (ft) or Stack	Height of Stack	Stack	Stack Gas Exit	Stack (Stack Gas Flow at	Stack Gas Exit	Normal Operating	ing	Date of	Perc	Percent of Annual	
2	Discharge Area (ft²)	Above Grade (ft)	de (ft)	Velocity	Condit	Conditions, <u>not</u> at Standard (ft³/min)	Temperature (F)	Time (hours per year)		Construction or Modification	Through	Throughput Through This Emission Point	This
yes	0.21 A	9	ш Н	386.00 ft/sec	790	ft^3/min	820 °F	200	hr/yr	_	\rightarrow	Jul-Sep	j j
	FB.						_			constructed	25% - 2:	7 72% 72%	
Type of	Type of Fuel Used and Heat Input (see instructions)	at Input (see it	nstructio	ons)				Operating Parameters (include units)	meters (incl	ude units)			
	Type of Fuel	Heat	Input (M	Heat Input (MMBTU/hr)	_				Parameter		Desc	Description:	
G	Diesel		2.8		ĮŽ	Normal Operating Rate/Throughput	Rate/Throughput		400			hp	
م :					<u>Σ</u>	aximum Operatin	Maximum Operating Rate/Throughput		400			hp	
U	ļ					Design Capacity/Volume	olume						
	Notes				<u>s</u>	Shell Height (ft)							
	Increased hours.	urs.			FI	Tank Diameter (ft)				-			Ī
						Fixed Roof	Roof	Floating Roof	<u>_</u>	External		□ Internal	<u> </u>
Air Pollutant Specific Information	ntion												
Emission Point ID No. (Afternate ID)	rnate ID) Control	ol Control	HAP	HAP/TAP				Permitted					
35-88	Equipment Code	ient Equipment Efficiency		CAS Number	Propo	Proposed Emission Rates	ites	Emission Rate (Current)	Add, Change, Delete or	Continuous Compliance	Concen	Concentration in Gases Exiting at Stack	2
Pollutent				ĺ	Average	Maximum	Annual	Annual	Unchanged	Method	· -		
					(lb/hr)	(lbs/hr)	(tons/yr)	(tons/yr)					
Particulate matter (PM.s.)				-	0.88	0.88	0.22	0.01	С			gr/std ft³	п³
Suffur dioxide					0.82	0.82	0.21	10.0	၁			ppm by vol	ō
Nitrogen oxides				_	12.40	12.40	3.10	0.15	C			ppm by vol	٥
Carbon monoxide					2.67	2.67	29'0	0.03	C			ppm by vol	lov ,
Total VOC (including those listed below)	d below)				66.0	0.99	0.25	0.01	၁			ppm by vol	lov
Acetaldehyde			000	0-20-57000	0.002	0.002	<0.01	n/n	۷			ppm by vol	<u>,</u>
Benzene			0007	Ľ	0.003	0.003	<0.01	n/a	«			ppm by vol	ō,
Formaldehyde			000	0-00-05000	0.003	0.003	<0.01	n/a	<			ppm by vol	, vo

				State of	State of Louisiana	l _					Date	Date of submittal
		Emis	sions Inve	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	nnaire (E	(Q) for Air	Pollutants				<u>26</u>	2010
			707	LOOP, LLC Port Co	mplex - Lafo	rt Complex - Lafourche Parish						
Emission Point ID No. (Alternate		criptive Name	of the Emiss	Descriptive Name of the Emissions Source (Alt. Name)	ame)		App	Approximate Location of Stack or Vent (see instructions)	on of Stack or	/ent (see instru	ctions)	
(GI) Jones	Tourde Oil Toy	One of Tankform Riceasoler Pump	É	Method		27."U	27,"Unknown"		Datu	Datum NAD27
66-6		Overly Louine -			<u>.</u>	UTM Zone	15	Horizontal	8	l ,	Vertical 3	3261267 mN
Tempo Subject Item 1D No.	_g					Latitude	29	27	· -	10		60 hundredths
EQT020						anna Ruori	8					
Stack and Discharge Physical Characteristics	Diameter (ft) or Stack Discharge Area (ft²)		Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack G Conditi	Stack Gas Flow at Conditions, not at	Stack Gas Exit Temperature	Normal Operating Time		Date of Construction or	Percel Throughp	Percent of Annual Throughput Through This
Change? (yes or no)	,				Standar	Standard (ft'/min)	£	(hours per year)	 -	ouncamon.		
yes	0.67 ft		6 A	250.00 ft/sec	5,400	ft^3/min	730 °F	200	hr/yr		\vdash	Jul-Sep
	H ²								ם	constructed	25% 25%	% 25% 25%
Type	Type of Fuel Used and Heat Input (see instructions)	Heat Input (s	see instruct	tions)	_			Operating Parameters (include units)	ameters (incl	ude units)		
- Line	Type of Fuel		Heat Input	Heat Input (MMBTU/hr)	<u></u>	İ			Parameter		Descr	Description
	Diesel		-		ž	rmal Operating	Normal Operating Rate/Throughput		1100			ηЬ
م					<u>Ž</u>	aximum Operatir	Maximum Operating Rate/Throughput		1100		٤	ир
S					<u>رگ</u>	Design Capacity/Volume	olume	1				
	Notes	52			-Sh	Shell Height (ft)		1		1		
	Increased hours	hours.			ᄪ	Tank Diameter (fl)		-				
						o de Paris	, , ,	Floating Poof	-	External		Integral
						TRYAL .	1000	ON GILLIAN				
Emission Point ID No. (Alternate ID)	dernate ID) Control	trol Control	\vdash	HAP/TAP				Permitted				
8-99		Equipment Equipment Code Efficiency		CAS Number	Propos	Proposed Emission Rates	ıfes	Emission Rate (Current)	Add, Change,	Continuous Compliance	Concent	Concentration in Gases
Pollutant] 			<u> </u> *	Average	Махітит	Annual	Annual	Unchanged	Method		
)	(lb/hr)	(lbs/hr)	(tons/yr)	(tons/yr)				
Particulate matter (PM10)					0.18	0.18	0.05	0.02	ပ			gr/std ft
Sulfur dioxide			_		0.44	0.44	0.11	0.19	S			ppm by vol
Nitrogen oxides					28.92	28.92	7.23	69:0	S			ppm by vol
Carbon monoxide		 - 	<u> </u>		1.34	1.34	0.34	0.16	O			ppm by vol
Total VOC (including those listed below)	sted below)				0.45	0.45	0.11	0.02	ပ	ŀ		lov de mqq
Benzene			8	4	9000	9000	<0.01	n/a				bbm by vol
Toluene		_	8	00108-88-3	0.002	0.002	<0.01	B/U	\ \			ppm by vol

Emission Paint ID No. (Alternate 1D) Tempo Subject Item ID No. Tempo Subject Item ID No. Tempo Subject Item ID No. Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used and Heat Input (see instructions) Type of Fuel Used Annual Air Pollutant Specific Information Equipment Lo? Code Emission Point ID No. (Alternate ID) Equipment Equipment Equipment Equipment Equipment Lo? Code Emission Point ID No. (Alternate ID) Equipment Equipment Equipment (Ibbar) Logo Code (Alternate ID) Equipment Equipment Equipment (Ibbar) Average Average (Ibbar) Average (Included ID No. (Alternate ID) Equipment Equipment (Ibbar) (•	
meter (ft) or Stack scharge Area (ft²) 0.5 ft 1.0e Of Fuel Diesel Notes Increased hours. Code Code		anaire (EIO) for A	Vir Pollutants					2010
meter (ft) or scharge Area of the I Diesel Incrediate I	LOOP, LLC Port Com	Complex - Lafourche Parish	ish				3	
D No. Diameter (ft) or Stack Discharge Area (ft²) O.S. ft Type of Fuel Used and Heat Input (Type of Fuel Diesel Notes Increased hours. Abov. Control Control Code Effici	nissions Source (Alt. Na	me)	App	Approximate Location of Stack or Vent (see instructions)	of Stack or Vent	(see instruction	(su	
Discharge Area (ft²) Discharge Area (ft²) Discharge Area (ft²) Abov.		Method		27."Unknown"	nown"		Datum NAD27	AD27
D No. Diameter (ft) or Stack Heig Discharge Area (ft²) Abov 0.5 ft Type of Fuel Used and Heat Input (Type of Fuel Diesel Increased hours. Andermation Code Effici	onp emergency Generator (Small Boat Harbor)	UTM Zone			764302 mE	Vertical	32612	Mm 79
Discharge Area (ft²) Abov Discharge Area (ft²) Abov O.S. ft Type of Fuel Used and Heat Input (Type of Fuel Diesel Diesel Notes Increased hours foode Code Efficient Code		Latitude	le 29 •	91		39 <u>-</u> 2	9	hundredths
Diameter (ft) or Stack Heig Discharge Area (ft²) Abov Of Star Of Fuel Diesel Diesel Notes Increased hours. Increased hours. Code Effici		9				 		
Discharge Area (ft²) Abov 0.5 ft Type of Fuel Used and Heat Input (Type of Fuel Diesel Notes Increased hours. Alternate ID Control Code Equipment Equipment Code	ck Stack Gas Exit	Stack Gas Flow at	Stack Gas Exit	Normal Operating			Percent of Annual	\nnum
Post of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Figure 1 Fortugation Point ID No. (Alternate ID) Control Contro	ft) Velocity	Conditions, not at Standard (ft³/min)	Temperature (F)	Time (hours per year)		Construction or The Modification	Throughput Through This Emission Point	rough This Point
Type of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Diesel Diesel Notes Increased hours. Increased hours. Pollutant Specific Information Diesel Notes Located Heat Input (307.70 ft/sec	3,625 ft^3/min	in 901 °F	500 h	hr/yr Jul	2006 Jan-	Apr-	\vdash
Type of Fuel Used and Heat Input (Type of Fuel B Diesel Notes Increased hours. Pollutant Specific Information mission Point ID No. (Alternate ID) Equipment Equipment Code Effici					constr	constructed	25% 25%	25% 25%
Pollutant Specific Information Pollutant LD No. (Alternate ID) Equipment Equipment Code Effici	ructions			Operating Parameters (include units)	neters (include	units)		
Pollutant Specific Information Pollutant LD No. (Alternate 1D) Laguipment Equipment LO7 Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment	Uses (semi (MMRTI/he)			_	Parameter		Description	
Notes Increased hours. Specific Information on Point ID No. (Alternate ID) Equipment 1-07 Code	3.3	Normal Opera	Normal Operating Rate/Throughout		470		dyq	!
Notes Increased hours. stant Specific Information on Point ID No. (Alternate ID) Equipment 1-07 Code		Maximum Op	Maximum Operating Rate/Throughput	=	470		php	
Notes Increased hours. stant Specific Information on Point ID No. (Alternate ID) Equipment 1-07 Code		Design Capacity/Volume	ity/Volume					
Increased hours. stant Specific Information on Point ID No. (Alternate ID) Equipment 1-07 Code		Shell Height (A)	H)			-		
on Point ID No. (Alternate ID) Equipment 1-07 Code		Tank Diameter (ft)	r (ft)					
on Point ID No. (Alternate ID) Equipment 1-07 Code								
on Point ID No. (Alternate ID) Control I-07 Code		ם	Fixed Roof	Floating Roof		External		Internal
on Point ID No. (Alternate ID) Control Equipment 1-07 Code								
1-07 Equipment	HAP/TAP			Permitted				
Pollutant	CAS Number	Proposed Emission Rates	n Rates	(Current)	Change,	Continuous Compliance	Concentration in Gases	n in Gases
	Ž	Average Maximum	1 Annual	Annual	_	Method		
	=	(lb/hr) (lbs/hr)	(tons/yr)	(tons/yr)				
(Particulate matter (PM)		1.03	0.26	<0.01	_ ၁			gr/std ft
Coffee dioxide		96'0 96'0	0.24	10.0	C			ppm by vol
Nitrogen oxides		14.57 14.57	3.64	P0'0	၁			ppm by vol
Carbon monoxide	3	3.14 3.14	0.78	10.0	C			ppm by vol
The 1 MOC (including these listed below)			0.29	10.0>	၁			ppm by vol
Lotal VC (metading most insica control)	00075-07-0		<0.01	n/a	٧			ppm by vol
Renzene			<0.01	n/a	<			ppm by vol
Formsidehyde	0.00-00-00	0.004 0.004	<0.01	n/a	٧			ppm by vol

Emission Point ID No. (Alternate Descriptive Name of the Emissions S Dorop. LI D) Tempo Subject Item ID No. EQT022 Stack and Diacharge Physical Characteristics Change? (yes or no) Yes Type of Fuel Used and Heat Input (see instructions) Fuel Discharge Area (It²) Air Pollutant Specific Information Air Pollutant Specific Information Air Pollutant Specific Information Coode Emission Point ID No. (Alternate ID) Equipment Equipment Code Efficiency Code Efficiency Equipment Control Equipment Code Efficiency Code Effic	Emissions Inventory Que LOOP, LLC Port Descriptive Name of the Emissions Source (A 470 bhp Emergency Generator (Tank Facility) Stack Height of Stack (ft²) Above Grade (ft) Velocity 9.38 ft 307.70 ft/	imissions Inventory Que LOOP, LLC Port iame of the Emissions Source (A 470 bhp Emergency Generator (Tank Facility) Height of Stack Stack Gas I	Questionna Port Comple	Emissions Inventory Questionnaire (EIQ) for Air Pollutants LOOP, LLC Port Complex - Lafourche Parish	r Air Pollut Parish	ants				6 6	2010
sion Point ID No. (Alternate ID) 2-07 EQT022 Ex and Discharge ick and Discharge Ex and Discharge Bischarge Area ange? (yes or no) yes Type of Fuel Used a Type of Fuel Used a Dicsel b C Increase Pollutant Specific Information mission Point ID No. (Alternate ID) Expending to the contract ID Expending to the contract ID In the c	470 bhp Emer (Tank Height of Sta Above Grade	missions Source gency Generator Facility) rck Stack C	A P. W.								
rmpo Subject Item ID No. EQT022 ck and Discharge ical Characteristics	470 bhp Emer (Tank Height of Sta Above Grade	cy Genrality)	ce (Ail. Maint			Approx	timate Location	of Stack or	Approximate Location of Stack or Vent (see instructions)	ctions)	
rmpo Subject Item ID No. EQT022 Ek and Discharge biase? (yes or no) yes yes Type of Fuel Used and Heat in Type of Fuel Used and Heat in Type of Fuel Used and Heat in Type of Fuel Used and Heat in Type of Fuel Used and Heat in Type of Fuel Used and Heat in Ecception Increased hours. Discharge Area (ft²) 100	Height of Sta Above Grade	slity)		X	Method		27. "Unknown"	"mowa"		Detun	Datum NAD27
EQT022 ck and Discharge ical Characteristi ange? (yes or no) yes b c c c c c c c c c c c 2-0	Height of Sta Above Grade	Sen	<u>-</u>	5	 	15	Horizontal	764302	Ι,	Vertical 32	3261267 mN
EQT022 ck and Discharge ical Characteristi ange? (yes or no) yes c c c C C 2-0	Height of Sta Above Grade	S		<u>a</u> <u>9</u>	Latitude 29	. •	127		29	` ``	60 hundredths 97 hundredths
ical Characteristi ange? (yes or no) yes c c c C 2-0	Height of Sta Above Grade 9.38 ft	S		3							
yes a b c c c c mission Point ID A 2-0	9.38 A		ick Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft ³ /min)		Stack Gas Exit Premperature (P)	Normal Operating Time (hours per year)		Date of Construction or Modification	Percen Throughpu Emis	Percent of Annual Throughput Through This Emission Point
a b c c c mission Point ID?	1	307.70 ft/	0 ft/sec	3,625 ft	ſt^3/min 901 ¶F	<u> </u>	800 h	hr/yr Jul	2006	Jan- Apr- Mar Jun	Sep Dec
a b c c C Pollutant Specific mission Point ID?	tanit (see inst					-			constructed		2
a b c c c c c c c c c c c c c c c c c c	111 700 (200 1112	ructions)				Op	Operating Parameters (include units)	neters (inc	lude units)		
a Diesel c Notes Increased hours. Pollutant Specific Information mission Point ID No. (Alternate ID) Control Equipment 2-07 Code	Heat In	Heat Input (MMBTU/hr)	î					Parameter		Description	otion
Notes Increased hours. ID Control Equipment		3.3		Normal O	Normal Operating Rate/Throughput	roughput		470		рћр	
Notes Increased hours. (1D) Control Equipment Code				Maximum	Maximum Operating Rate/Throughput	Throughput		470		рћр	
Increased hours. ID) Control Equipment				Design Ca	Design Capacity/Volume						
Increased hours. (1D) Control Equipment				Shell Height (ft)	ઝા (R)				1		
(1D) Control Equipment				Tank Diameter (ft)	neter (ft)		_				
ID) Control Equipment				<u></u>	Fixed Roof	H	Floating Roof	r o	External		Internal
ID) Control Equipment Code											
Equipment Code	Control	HAP / TAP				:	Permitted				
	Equipment Efficiency	CAS Number		Proposed Emission Rates	ission Rates	<u> </u>	(Current)	Add, Change, Delete, or	Continuous	Concentr	Concentration in Gases Exiting at Stack
Pollutant			Average	ge Maximum	_	Annual	Annual (tons/vr)	Unchanged	Method		İ
Designation (DM.)			1.03	-	-	0.26	<0.01	ပ			gr/std fl³
Cultur dioxide			0.96	-		0.24	10.0	ပ			ppm by vol
Nitroes oxides			14.57	7 14.57	_	3.64	0.04	၁			ppm by vol
Carbon monoxide			3.14	3.14		0.78	10.0	C			ppm by vol
Total VOC (including those listed below)			1.16	1.16		0.29	<0.01	C			ppm by vol
Acetaidehyde		0-0-5-000	0.003			<0.01	rv/a	V			ppm by vol
Benzene		00071-43-2	0.003	3 0.003		<0.01	rv/a	٧			ppm by vol
Formaldehyde		0-00-05000	0.004	1 0.004	\dashv	<0.01	n/a	∢			ppm by vol

Emission Point ID No. (Alternate Descriptive Name of the Emissions S 10) Tempo Subject Item ID No. Stack and Discharge Physical Characteristics Diameter (ft) or Stack Change? (yes or no) yes Yes Type of Fuel Used and Heat Input (see instructions) Fuel Diesel Diesel Control Air Pollutant Specific Information Air Pollutant Specific Information Smission Point ID No. (Alternate ID) Emission Point ID No. (Alternate ID) Equipment Equipment CAS Number CAS Number Control Code Efficiency Code (Alternate ID) Equipment Equipment CAS Number CAS Number CAS Number Code	Emissions Inventory Questionnaire (EIQ) for Air Pollutants 1,00P, LLC Port Complex - Lafourche Parish Descriptive Name of the Emissions Source (Alt. Name) 671 bhp Emergency Generator (Clovelly Dome) Stack Gas Fait (Clovelly Dome) Stack Gas Flow at Stack Gas Exit Stack Gas Flow at Temperatur (Pf) Standard (ft) Standard (ft) Standard (ft) Heat Input (see instructions) Heat Input (see instructions)	naire (EIQ) for Air ne) Method UTM Zone Latitude Latitude Longitude Longitude Conditions, ngt at Standard (ft³/min) 2,600 ft³/min	ish Appropriate 15 Stack Gas Exit Temperature (°F)	Approximate Location of Stack or Vent (see instructions) 27, "Unknown" 15 Horizontal 764302 mE Vertical 27 10 10 10 10 10 10 10 10 10 10 10 10 10			Dec 2010
Descriptive Name of the E 671 bhp Emer (Clove) we harge Area (ft²) 0.5 ft 0.5 ft Pe of Fuel Diesel Notes Increased hours. On Control Equipment Code Efficiency	LOUP, LLC Fort Complete Emissions Source (Alt. Narmergency Generator ovelly Dome) Stack Stack Gas Exit ade (ft) Velocity Instructions) Instructions	Stack Gas F Conditions, Standard (ft	29 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	roximate Location o 27, "Unkn Horizontal 27			
meter (ft) or scharge Area 0.5 ft 0.5 ft uel Used a pe of Fuel Diesel Increa	mergency Generator ovelly Dome) Stack Stack Gas Exit ade (ft) Velocity Instructions)	Stack Gas F Conditions, Standard (ft	cone 29 ude 90 • Stack Gas E. Temperatu (*F)	roximate Location of 27, Unkn Horizontal 27 T			
D No. Discharge Area (ft) or Stack Discharge Area (ft) O.5 A Type of Fuel Used and Heat Input (Type of Fuel Diesel Notes Increased hours. Abov. Abov. Coltradia (ft) Control Code Effici	wergency Generator ovelly Dome) Stack Stack Gas Exit ade (ft) Velocity Instructions)	Method UTM 2 Latitud Longitt Conditions, not at Standard (ff /min) 2,600 ff 3/mi	c 29 15 16 15 15 15 15 15 15 15 15 15 15 15 15 15	27, "Unkn Horizontal	I Stack or Vent (see	instructions)	
D No. Diameter (ft) ar Stack Heig Abov Discharge Area (ft²) Abov 0.5 A Type of Fuel Used and Heat Input (Type of Fuel Diesel Diesel Notes Increased hours. Increased hours. Code Effici	Stack Stack Gas Exit ade (ft) Velocity Velocity 220.69 ft/sec instructions)	Stack Gas Flow at Conditions, figl at Standard (ft ³ /min) 2,600 ft ⁻³ /mi	c 29 ude 90 Stack Gas Exit Temperature (°F) n 810 °F	27	02 mE	Vertical	지인
Discharge Area (ft ³) Abov Discharge Area (ft ³) Abov Read the second of Fuel Used and Heat Input (Type of Fuel Discel Discel Notes Increased hours. Anternation Control Code Equipment Equipment Code	Stack Stack Gas Exit ade (ft) Velocity Velocity 3 ft 220.69 ft/sec instructions)	Stack Gas Flow at Conditions, <u>ngt</u> at Standard (ft³/min) 2,600 ft^3/mi	Stack Gas Exit Temperature (°F) R 810 °F	191	10 29	 	60 hundredths 97 hundredths
Diameter (ft) or Stack Height (Incompation Code Equipment Equipmen	Stack Stack Gas Exit ade (ft) Velocity 3 ft 220.69 ft/sec instructions)	Stack Gas Flow at Conditions, not at Standard (ft³/min) 2,600 ft³3/mi	Stack Gas Exit Temperature (°F) n 810 °F				
Discharge Area (ft') Above of Fuel Used and Heat Input (Type of Fuel Diesel Diesel Notes Increased hours. Activity of Equipment Equ	ade (II) Vetocity 3 ft 220.69 ft/sec instructions)	Standard (ff /min) 2,600 ff^3/mi	(F)	Normal Operating	Date of		Percent of Annual Throughout Through This
Poss Diesel Type of Fuel Used and Heat Input (Type of Fuel Diesel Diesel Notes Increased hours. Pollutant Specific Information mission Point ID No. (Alternate ID) 3-07 Code Effici	3 ft 220.69 ft/sec instructions)		₫ ₀ 018	(hours per year)			Emission Point
Type of Fuel Used and Heat Input (Type of Fuel Used and Heat Input (Diesel Diesel Notes Increased hours. Pollutant Specific Information Bauipment Type of Fuel Control Control Code Effici	instructions)			500 hr/yr	Nov.		Sep
Type of Fuel Used and Heat Input (Type of Fuel Diesel Diesel Notes Increased hours. Pollutant Specific Information mission Point ID No. (Alternate ID) Equipment Equip 3-07 Code Effici	instructions) t Input (MMBTU/hr)				constructed	%57	%C7 %C7 %C7
Pollutant Specific Information Both Salary Control Control Code Effici	I Input (MMBTU/hr)		<u> </u>	Operating Parame	Operating Parameters (include units)	ts)	
Pollutant Specific Information mission Point 1D No. (Alternate 1D) 3-07 Diese Notes Notes Control Equipment Equipment Equipment Equipment Code Effici				Ь	Parameter		Description
Notes Increased hours. ID) Control Control Equipment Code Efficiency	4.7	Normal Operat	Normal Operating Rate/Throughput		671		рһр
Notes Increased hours. 1D) Control Control Equipment Code Efficiency		Maximum Ope	Maximum Operating Rate/Throughput	#	671		рһр
Increased hours. ID Control Control Equipment Code Efficiency		Design Capacity/Volume	ity/Volume				
Increased hours. ID) Control Control Equipment Code		Shell Height (ft)	(2)				
1D) Control Control Equipment Code Efficiency		Tank Diameter (ft)	τ (ft)				
1D) Control Control Equipment Code Efficiency		ļ	June Danie	Cleating Deef	leanety	lan	Internal
1D) Control Control Equipment Equipment Code Efficiency			TOOK DAY	- Grand			
Equipment Equipment Code Efficiency	HAP/TAP			Permitted			
	CAS Number	Proposed Emission Rates	in Rates	Emission Rate (Current)	Add, Continuous Change, Compliance		Concentration in Gases Exiting at Stack
Pollutant	Average (1b/hr)	age Maximum hr) (lbs/hr)	1 Annual (tons/yr)	Annual U	Unchanged Witting		
Particulate matter (PM.s.)	0.47	17 0.47	0.12	10.0>	C		gr/std ft ³
Sulfar dioxide	0,27		0.07	0.01	S		ppm by vol
Nitrogen oxides	16.10	16.10	4.03	0.04	S		lov yd mdd
Carbon monoxide	3.69	3.69	0.92	0.01	O.		ppm by vol
Total VOC (including those listed below)	0.47	7 0.47	0.12	<0.01	S	-	ppm by vol
	00071-43-2 0.004	0.004	<0.01	r/a	A		ppm by vol

Descriptive Name of the Emissions Source (Alt. Name) 671 bhp Emergency Generator (Clovelly Control Room) 671 bhp Emergency Generator (Clovelly Control Room) 651 bhp Emergency Generator (Clovelly Control Room) 651 bhp Emergency Generator (Clovelly Control Room) 652 Above Grade (ft) Velocity Stanc 654 Above Grade (ft) Velocity Stanc 655 Above Grade (ft) Velocity Stanc 656 Above Grade (ft) Above Grade (ft) Accontrol Control Room) 657 Above Grade (ft) Above Grade (ft) Stanc 658 Average Average 659 Average 660 Average 661 Average 661 Average 662 Average 662 Average 663 Average 6647 665 Average 666 Average 667 Average 667 Average 667 Average 668 Average 669 Average 669 Average 669 Average 669 Average 660 Average 660 Average 660 Average 661 Average 661 Average 661 Average 661 Average 662 Average 663 Average 664 Average 664 Average 665 Average 666 Average 667 Average 667 Average 667 Average 668 Average 669 Average 669 Average 669 Average 660 Average	State of Louisians	iciana					Date of submittal
Descriptive Name of the Emissions Source (Alt. Name) Clovelly Control Room		no (EIO) for Air I	Pollintante				_
Descriptive Name of the Emissions Source (All. Name) 671 bhp Emergency Generator (Clovelly Control Room) meter (ft) or Stack 1	missions inventory Questionnal LOOP, LLC Port Complex	- Lafourche Parish	Ollutants				Dec 2010
1D	ame of the Emissions Source (Alt. Name)		Appr	Approximate Location of Stack or Vent (see instructions)	of Stack or Vent	(see instruction	(91)
EQT024 EQT024 EQT024 EQT024 Discharge Area (It²) a Bove Grade (II) Velocity Conding Stand Conding Characteristics Discharge Area (It²) a Bove Grade (II) Velocity Conding Stand Characteristics Discharge Area (It²) a Bove Grade (II) Velocity Conding Co	771 bhp Emergency Generator	Method LTM Zone	15	Horizontal 76430	764302 mE	Vertical	Datum N 32612
EQT024 Height of Stack Stack Gas Exit Stack and Discharge Area (It) Above Grade (It) Velocity Conditions	(Clovelly Control Room)	Latitude	29	27		2	punu 09
Control Cont		Longitude	8	. 91		50	97 hundredths
Notestand Notestand Notestand Notestand Notestand		t				-	
Notes Notes Notes Notes	Stack Gas Exit		Stack Gas Exit	Normal Operating	ig Date of Construction or		Percent of Annual Throughout Thronon This
Pest Politism Properties Properties	Velocity	Conditions, not at	(TP)	(hours per year)			Emission Point
Type of Fuel Used and Heat Input (see instructions)		2,600 R^3/min	# 018	500 hr	hr/yr Nov	2005 Jan-	Apr- Jul- Jun Sep
Pollutant Specific Information mission Point ID No. (Alternate ID) replace matter (PM ₁₀) replace instructions) Notes Increased hours. Real Input (MMBTU/hr) 4.7 Notes Increased hours. Real Input (MMBTU/hr) 4.7 Control Equipment Contro					consti	constructed	25% 25% 25% 25%
Type of Fuel Heat Input (MMBTU/hr)	ut (see instructions)			Operating Parameters (include units)	eters (include	units)	
Diese	Heat Input (MMBTU/hr)				Parameter		Description
Notes Increased hours.	4.7	Normal Operating Rate/Throughput	Sate/Throughput		119		dılq
Specific Information Notes		Maximum Operating Rate/Throughput	g Rate/Throughpu		1/9		bhp
Specific Information Control Control CAS Number Code Efficiency Cas		Design Capacity/Volume	olume				
Specific Information Control Control IIAP / TAP		Shell Height (ft)					
Specific Information		Tank Diameter (ft)				_	
Specific Information		Joseph Brook	Joseph	Floating Poof		External	Internal
Control Control Control Control Control Control Control Control Control Control Code Efficiency Code Efficiency Code				in the state of th			
Equipment Equipment CAS Number Cade Efficiency Cade Efficiency CAS Number CAS	┝			Permitted			
ter (PM ₁₀) ter (PM ₁₀) 3 ide 3.69		Proposed Emission Rates	<u>.</u>	Emission Rate (Current)	Add, Change, Cc Delete, or	s 2	Concentration in Gases Exiting at Stack
ter (PM ₁₀) . 047 3.27 3.69 ide 3.69	Average (1b/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)		Donata	
s 16.10 16.1	0.47	0.47	0.12	<0.01	C		gr/std ft ³
ide 16.10 3.69 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1	0.27	0.27	0.07	0.01	C		lov yd mqq
3.69	16.10	16.10	4.03	0.04	C		ppm by vol
1 - About House House	3.69	3.69	0.92	10.0	Ü		lov yd mqq
	0.47	0.47	0.12	<0.01	٥		lov yd mdd
00071-43-2 0.004		0.004	<0.01	n/a	٧		lov yd mgg

					State of	State of Louisiana						Date of	Date of submittal
			Emissions	Invento	ory Question	maire (E	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	Pollutants				Ü	2010
				LOOP, 1	LOOP, LLC Port Complex - Lafourche Parish	ıplex - Lafe	ourche Parish	1				~-	
Emission Point ID No. (Alternate	Vo. (Alternate	Descriptive	. Name of the	Emissions	Descriptive Name of the Emissions Source (Alt. Name)	me)		νbi	roximate Locati	on of Stack or	Approximate Location of Stack or Vent (see instructions)	lions)	
1D) 5-07			268 bhp Emergency Generator (OC Warehouse)	tp Emergency Ger (OC Warehouse)	nerator		Method UTM Zone		27,*U	27, "Unknown" tal 764302	mE Vertical	'	ZI⊇I
Tempo Subject Item ID No.	tem ID No.						Latitude	62 68	16		29	97	hundredths
EQT025													
Stack and Discharge	Ĺ	or Stack	Height of Stack	<u> </u>	Stack Gas Exit	Stack C	Stack Gas Flow at	Stack Gas Exit	Normal Operating		Date of	Percent	Percent of Annual
Physical Characteristics Change? (yes or no)	istics Discharge Area (ft²) no)	rea (ft²)	Above Grade (ft)	<u>.</u>	Velocity	Condit	Conditions, <u>nof</u> at Standard (ft ³ /min)	Temperature (P)	lime (hours per year)		Construction or Modification	i nrougnput Emissi	Inroughput Inrough Inis Emission Point
yes	0.42 ft	€ .	10.25 A		135.94 fVsec	1,130	ft^3/min	૧ <u>, 656, 1</u>	200	hr/yr May	5006	\rightarrow	
	,	h²									constructed	25%	%67 %67
	Type of Fuel Used and Heat Input (see instructions)	l and Heat I	nout (see ins	structions	3				Operating Parameters (include units)	ameters (incl	lude units)		
Fuel	Type of Fuel		Heat In	Heat Input (MMBTU/hr)	BTU/hr)	_			L	Parameter		Description	lon
6	Diesel			1.9		Ž	ormal Operating	Normal Operating Rate/Throughput		268		php	
٥				ł		Σ	eximum Operation	Maximum Operating Rate/Throughput	ī	268		php	
o						[ک	Design Capacity/Volume	olume					
		Notes				Š	Shell Height (ft)						
	E	Increased hours.				<u> </u>	Tank Diameter (ft)						
- ·-							☐ Fixed Roof	Roof	Floating Roof	of o	External	٥	Internal
Air Pollutant Specific Information	ific Information												
Emission Point 1	Emission Point ID No. (Alternate ID) 5-07	Control Equipment Code	Control Equipment Efficiency	HAP/TAP	прег	Propo	Proposed Emission Rates	ales	Permitted Emission Rate (Current)	Add, Change, Delete, or	Continuous Compliance	Concentral	Concentration in Gases
Pollutant		·			Å Å	Average (Ib/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method	,	
Particulate matter (PM1a)	Mia)				Ö	0.59	0.59	0.15	<0.01	C			gr/std ft
Sulfur dioxide					0	0.55	0.55	0.14	<0.01	၁			ppm by vol
Nitrogen oxides					8	8.31	8.31	2.08	0.03	S			ppm by vol
Carbon monoxide					-	1.79	1.79	0.45	0.01	S			ppm by vol
Total VOC (includin	Total VOC (including those listed below)				0.	99'0	99'0	0.17	<0.01	٥			ppm by vol
Formaldehyde				0-00-05000	Н	0.002	0.002	10.0>	n/a	¥			ррт by vol

Emission Function F						State of Louisiana	ouisiana						Date	Date of submittal
100P, LLC Port Complex - Lafourche Parish Apprentine to Lacour				Emissions	Invento	ry Question	naire (EI	Q) for Air	Pollutants				<u> </u>	<u> </u>
State Peteriptive Name of the Emissions Source (Alt. Name) Approximate Location of State or Vent (teer instructions) 168 bb Emergency Generator (LOCAP) Latitude 29					LOOP, L	LC Port Comp	dex - Lafor	ırche Parish		;				
10 10 10 10 10 10 10 10	Emission Point II	D No. (Alternate	Descriptive	e Name of the 1	Emissions	Source (Alt. Nan	<u>ie</u>)		Api	roximate Locati	on of Stack or	Vent (see instruct	tions)	
	= 3	92		168 bhp Eme	rrgency Ger	rerator		Method		Horizon	Inknown"			MAD27
				ð	OCAP)			UIM Zone	. 60		104302	0	ļ	60 hundredths
	Tempo Subjec	et Item 1D No.						Longitude		-	11	29		
	EQT	.026									}			
10 10 10 10 10 10 10 10	Stack and Disc.		ter (ft) or Stack	Height of St Above Grade		tack Gas Exit	Stack Ga Conditio	is Flow at ns, not at	Stack Gas Exit	Normal Oper Time		Date of nstruction or	Perce Through	nt of Annual sut Through Thi
10.28 ft 10.28 ft	Change? (yes c				<u> </u>	•	Standard	l (ft²/min)	£	(hours per y		Todification	E	ission Point
Type of Fuel Used and Heat Input (see instructions)	ys		0.25 A	10.58 f		304.90 ft/sec	868	ft^3/min	₹ 050	800		5000		Sep Sep
Type of Fuel Used and Heat Input (see instructions)			#3								_]	constructed		
Type of Fact Heat Input (AMBTU/hr) Normal Operating Rate/Throughbut 1.0 Detectiption		Tring	I Ilead and Heat I	nout (see ins	tructions					Operating Par	ameters (inc	lude units)		
Diese D	Fire	Type o	of Fuel	Heat It	aput (MM)	BTU/hr)					Parameter		Descr	iption
Possign Capacity/Volume Permitted hours. Permitted hours P		Die	sel		=		Š	mal Operating	Rate/Throughput		168		٩	ф
Pesign Capacity/Volume Shell Height (f) Tank Diameter (f)	ء						Ma	cimum Operatii	ng Rate/Throughp	ūt	168		q	hp
Specific Information Four-rand Board Height (ft) Tank Diameter (ft	Ü				 		<u>2</u>	ign Capacity/V	/olume					-
Specific Information Control C			Notes				She	Il Height (ft)		_				
Specific Information Control Control Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Equipment Control Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Efficiency Code Control			Increased hours.		l		Tan	k Diameter (fl)						
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Oint ID No. (Alternate ID) Control Countrol Gontrol Countrol Gontrol Countrol HAP / TAP Froposed Emission Rates Promitted Emission Rates Promitted Emission Rates Add, Countrol	Air Pollutant S	pecific Information												
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ter (PM ₁₀) Average Maximum (IbA/hr) Annual (tons/yr)		20-9	Code	Efficiency			Propost	ed Emission Ra	ates	(Current)	Change, Delete, or	Compliance	Concen	tration in Gases ing at Stack
ter (PM ₁₀) (IbAhr) (IbAhr) (IbAhr) (Ionsyr) Constyr) 1037 0.37 0.09 <0.01	Pollutant					Avei		Maximum	Annual	Annust	Unchanged			
ter (PM ₁₀) 0.37 0.09 <0.01 C .s 5.21 5.21 1.30 0.01 C ide 1.12 1.12 0.28 <0.01						<u>(a)</u>		(lbs/hr)	(tons/yr)	(Ions/yr)	ļ			
ide cluding those listed below) 6.34 0.34 0.09 <0.01 C C C C C C C C C C	Particulate matter	(PM ₁₀)				0.	17	0.37	0.09	40.01	ار	1		gr/std ft
S.21 1.30 0.01 C	Sulfur dioxide					0.	14	0.34	60.0	<0.01	٥			ppm by vo
Longing those listed below) Longing those listed below)	Nitrogen oxides					5.2	11	5.21	1.30	0.01	٥			ov vd mqq
0.41 0.10 <0.01 C	Carbon monoxide					1.1	2	1.12	0.28	<0.01	٥			ppm by vo
	Total VOC (inclu-	ding those listed belo	(wr			0.6	11	0.41	0.10	<0.01	J			ррт by vo

				1	State of Louisiana	ouisiana						Date	Date of submittal
			Emissions	Inventory Que	Emissions Inventory Questionnaire (EIQ) for Air Pollutants	stionnaire (EIQ) for Air	2) for Air	Pollutants				Dec	2010
				בייטוי, ביי	or com	hick - baild	Telle I all sit	,					
Emission Point ID No. (Alternate	No. (Alternate	Descriptiva	Descriptive Name of the Emissions Source (A	Emissions So	urce (Alt. Name)	ne)		App	Approximate Locntion of Stack or Vent (see instructions)	n of Stack or \	Vent (see instru	ctions)	
(d) 87-01			Fugitiv (Clove	Fugitive Emissions (Clovelly Dome)			Method UTM Zone		27, Un Horizontal	27, "Unknown" tal 766300	Ι,	Datur Vertical 3	김의
Tempo Subject Item ID No. FUG001	Item ID No.						Latitude	.	15.		13		54 hundredths 93 hundredths
Stack and Discharge Physical Characteristics Change? (yes or no)		Diameter (ft) or Stack Discharge Area (ft²)	Height of Stack Above Grade (ft)	<u> </u>	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft ³ /min)	s Flow at ns, <u>not</u> at (ft³/min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)		Date of Construction or Modification	Percen Throughpu Emis	Percent of Annual Throughput Through This Emission Point
OII	1/a	€ 6	17a f	ft n/a	fVsec	n/a	ft^3/min	n/a °F	8,760	hr/yr		Jan- Apr- Mar Jun 25% 25%	- Jul- Oct- n Sep Dec 6 25% 25%
	Type of Fire Used and Heat Input (see instructions)	ed and Heat I	nout (see ins	itructions					Operating Parameters (include units)	meters (inch	ude units)		
100	Type of Fuel	-	Heat Ir	Heat Input (MMBTU/hr)	'U/hr)					Parameter	_	Description	ption
85						Non	nal Operating	Normal Operating Rate/Throughput					
ء						Махі	imum Operati:	Maximum Operating Rate/Throughput					
٥						Desig	Design Capacity/Volume	olume					
		Notes				Shell	Shell Height (ft) Tank Diameter (ft)						
								3.54	O Claritania		Dutamol		lement
Air Pollitant Specific Information	eiffe Information] 	LIXED NOOL	Nooi	LIDGUILG WOOL		CAICHIA	י וי	THE CHIEF
Emission Point	Emission Point ID No. (Alternate ID)	Control	Control	HAP/TAP					Permitted				
	10-78	Equipment Code	Efficiency	CAS Number	į.	Proposed	Proposed Emission Rates	ites	Emission Rate (Current)	Add, Change, Delete, or	Continuous	Concentr	Concentration in Gases Exiting at Stack
Pollutant		T			Average (lb/hr)	<u> </u>	Maximum (fbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Unchanged	Method		
Total VOC (includin	Total VOC (including those listed below)				<0.01	01	<0.01	<0.01	<0.01	n			ppm by vol

FIGURE 1 SITE LOCATION MAP

5510A C-K Associates, LLC

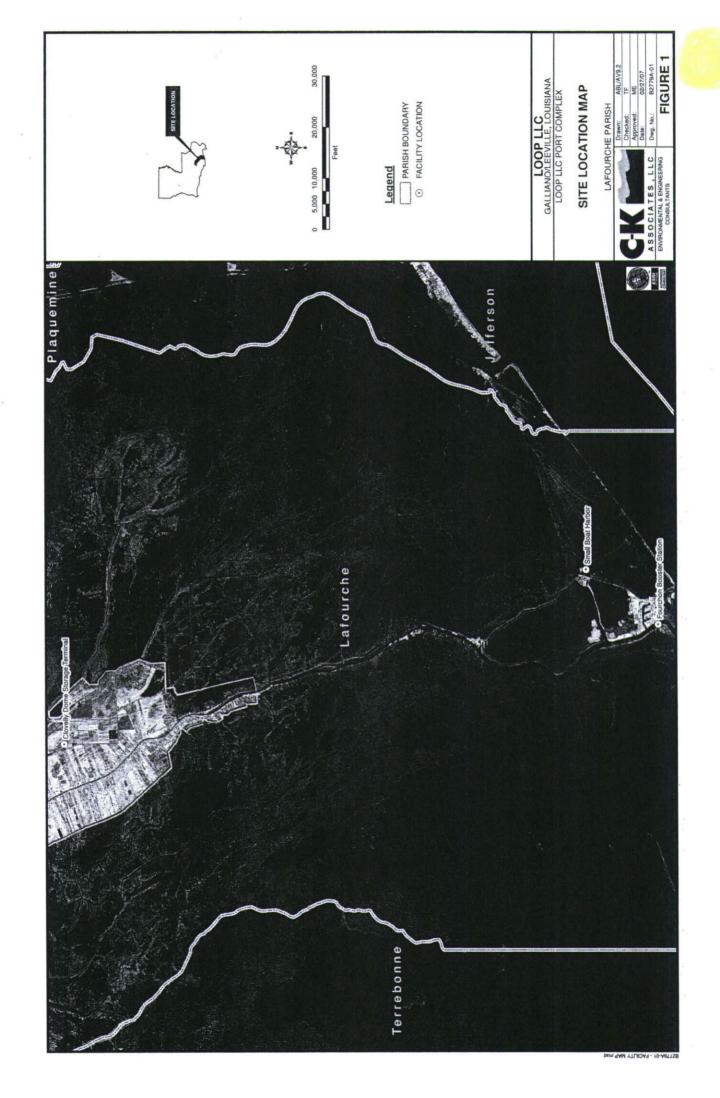
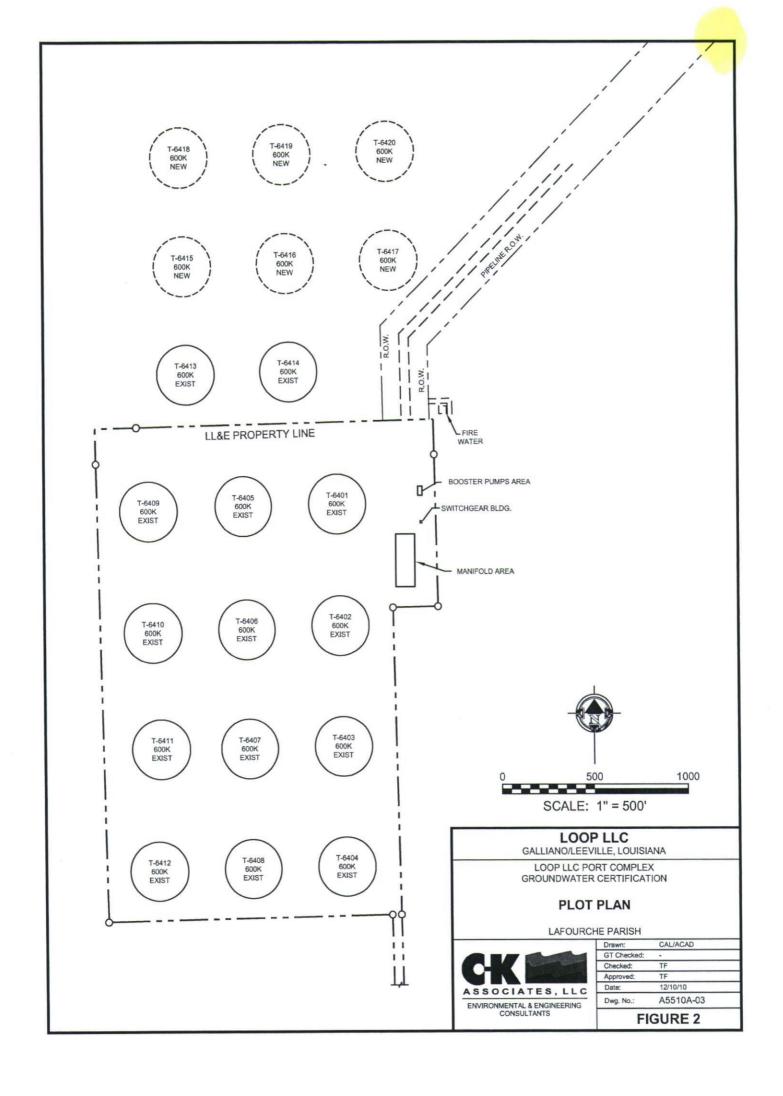


FIGURE 2 PLOT PLAN

C-K Associates, LLC



APPENDIX A STATE OPERATING PERMIT 1560-00027-03

C-K Associates, LLC



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO GOVERNOR MIKE D McDANIEL, Ph D

Certified Mail No.:

Activity No.: PER20070001 Agency Interest No.: 4634

Mrs. CaSandra J. Cooper-Gates
Director, Human, Environmental and Safety Services
LOOP LLC
Post Office Box 7250
Metairie, Louisiana 70010-7250

SECRETARY

RE: Permit Modification, LOOP LLC - Port Complex, LOOP LLC

Galliano, Lafourche Parish, Louisiana

Dear Mrs. Cooper-Gates:

This is to inform you that the permit modification request for the above referenced facility has been approved under LAC 33:HI.501 The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Also enclosed is a document entitled "General Information." Please be advised that this document contains a summary of facility-level information contained in LDEQ's TEMPO database and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this 12 day of Une

Permit No.: 1560-00027-03

Sincerely,

Chuck Carr Brown, Ph.D. Assistant Secretary

CCB:sbp

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

I. BACKGROUND

LOOP LLC - Port Complex consists of pipeline terminal facilities existing in Galliano and Leeville located in Lafourche Parish. The LOOP LLC - Port Complex currently operates under Permit No. 1560-00027-02, issued February 5, 2003

II. ORIGIN

A permit application and Emission Inventory Questionnaire (EIQ) dated April 4, 2007, were received requesting a permit modification.

III. DESCRIPTION

The LOOP LLC - Port Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leeville, the Fourchon Booster Station in Leeville, and the Marine Offloading Terminal in Grand Isle Block 59 of the Gulf of Mexico. The Clovelly Dome Storage Terminal consists of nine underground storage caverns. These caverns provide storage for crude oil prior to pipeline delivery. Eight of the caverns have a capacity of approximately 6 MM barrels of oil, and one cavern has a capacity of 3 MM barrels of oil. The terminal also consist of surface facilities located in the same general vicinity which include a Brine Storage Reservoir, Operations Building, crude oil storage tanks, fuel and slop oil tanks, a turbine generator, and ancillary equipment. The Small Boat Harbor, which is located on Bayou Lafourche, shelters crew and work boats and includes hose testing facilities. The Fourchon Booster Station is a secured unmanned facility with two large diesel storage tanks and a few small storage tanks. Emission control systems utilized at the LOOP Complex facilities include the latest storage tank technology, mechanical seals on pumps, and low sulfur fuel oil.

LOOP LLC proposes to expand its Clovelly Dome Storage Terminal to include eight (8) additional crude oil storage tanks (Emission Point Nos. 8-07 through 15-07). Construction will be done in two phases with four (4) tanks constructed under each phase. The new tanks will be modeled after the six (6) existing tanks, each being an external floating roof tank and having a diameter of 310 feet. The volume of each of the new tanks will also be the same as the existing tanks, 600,000 barrels (bbl). With the additional tankage, it is expected that the previously permitted crude oil throughput of 60,000 bbl/day per tank will change to approximately 45,000 bbl/day per tank. However, the facility is requesting to remove the existing Consolidated Crude Oil Throughput operating scenario, and instead place all 14 crude oil tanks under one emissions CAP consisting of both operating and roof landing emissions based on a total facility-wide annual crude oil throughput of 230 million bbl of crude oil per year, which is an increase of the previously permitted throughput of 131.4 million bbl/yr. The emissions CAP will allow the facility to operate

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC Galliano, Lafourche Parish, Louisiana

the crude oil storage tanks with the flexibility to increase throughput through any one tank to meet scheduling and production needs. The CAP will also allow for roof landings to occur, when necessary. In addition, LOOP LLC is permitting six (6) diesel-fired emergency generators (Emission Point Nos. 1-07 through 6-07) which vary in size, as well as updating emission rates for existing sources based on evaluated operational parameters, emission calculation methodology, and speciation profiles.

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	2.84	1.05	- 1.79
SO ₂	29.18	22.56	- 6.62
NO_X	36.45	45.56	+ 9.11
СО	2.22	1.76	- 0.46
VOC 1	43.24	93.82	+ 50 58

¹VOC speciation in tons per year:

LAC 33:III. Chapter 51 Toxic Air Pollutants TAP's	Emissions
Acetaldehyde	0.001
Benzene	0.924
Cumene	0 023
Ethyl benzene	0.124
Formaldehyde	0.001
n-Hexane	0 948
Toluene	0 590
Xylenes	0.447
Total TAP's	3.057
Other VOC's	90.763
Total VOC	93.820

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations and New Source Performance Standards (NSPS) Prevention of Significant Deterioration (PSD) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

This facility is a minor source of LAC 33:III. Chapter 51 Toxic Air Pollutants (TAPs).

V. PUBLIC NOTICE

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on May 9, 2007; and in the Lafourche Gazette, Larose, on May 9, 2007. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on May 8, 2007 No comments were received.

VI. EFFECTS ON AMBIENT AIR

Dispersion Model(s) Used: None

VII. GENERAL CONDITION XVII ACTIVITIES

			Emiss	sion Rates	- tons	
Work Activity	Schedule	PM_{10}	SO_2	NO_X	CO	VOC
None Specified	-					·

LOOP LLC - Port Complex Agency Interest No.: 4634 LOOP LLC Galliano, Lafourche Parish, Louisiana

VIII. INSIGNIFICANT ACTIVITIES

ID	Description	Citation
2-78	Diesel Fuel Tank for Turbine Generator (Clovelly Dome), 8,200 gallons	LAC 33:III.501 B.5.A.3
22-78	Diesel Fuel Tank for Emergency Crude Pump (Clovelly Dome), 8,200 gallons	LAC 33:III.501.B.5.A.3
25-88	Tank 3 – Operations Center – Diesel Tank (Clovelly Dome), 4,000 gallons	LAC 33:III.501.B.5.A 3
26-88	Tank 4 – Operations Center – Diesel Tank (Clovelly Dome), 4,000 gailons	LAC 33:III.501 B 5 A.3
27-88	Tank 5 – Fourchon Booster Station Diesel Tank, 1,000 gallons	LAC 33:III.501 B.5.A.3
28-88	Tank 6 – Fourchon Booster Station Emergency Generator Diesel Tank (Clovelly Dome), 322 gallons	LAC 33:III.501 B.5.A.3
29-88	Tank 7 - Fourthon Booster Station Dock Diesel Tank, 560 gallons	LAC 33:III.501 B.5.A.3
30-88	Tank 8 - Clovelly Day Tank for Fire Pumps, 80 gallons	LAC 33:III.501.B.5.A.2
31-88	Tank 9 - Clovelly Day Tank for Generators, 115 gallons	LAC 33:II1.501.B.5.A 2
32-88	Tank 10 - Clovelly Underground Slop Oil Tank by Lab, 2,000 gallons	LAC 33:III.501 B.5.A.3
34-88	Tank 12 - Small Boat Harbor Diesel Tank, 260 gallons	LAC 33:III.501.B.5.A.3
36-89	Day Tank for Operations Center Standby Generator (Clovelly Dome), 94 gallons	LAC 33:III.501.B.5.A.2
37-91	Small Boat Harbor Diesel Tank, 564 gallons	LAC 33:III.501.B.5.A.3

- 1. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated April 4, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III 913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
 - A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33 I.Chapter 39.
 - B A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December

- D. Each report submitted in accordance with this condition shall contain the following information:
 - 1. Description of noncomplying emission(s);

2. Cause of noncompliance;

- 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
- 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
- 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33 I Chapter 39, LAC 33 III. Chapter 9, and LAC 33 III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
 - A Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III 927.
- In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
 - 1. Generally be less than 5 IPY
 - 2. Be less than the minimum emission rate (MER)
 - 3. Be scheduled daily, weekly, monthly, etc., or
 - 4 Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

TPOR0140

General Information

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Al ID: 4634 LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

Also Known As:	QI	Name User	User Group	Start Date
	1560-00027	LOOP LLC - Port Complex	CDS Number	10-12-1996
	72-0723344	LOOP LLC - Port Complex	Federal Tax ID	11-21-1999
	LAD980698799	LOOP LLC - Port Complex	Hazardous Waste Notfication	02-22-1983
	LA0049492	LPDES#	LPDES Permit #	06-25-2003
	WP0330	FMDPS #	LWDPS Permit #	06-25-2003
		Priority 2 Emergency Site	Priority 2 Emergency Site	07-20-2006
	•	Radiation General License	Radiation License Number	01-09-2002
	29-006030	UST Facility ID # Unde	Underground Storage Tanks	10-11-2002
	2164	LOOP LLC - Port Complex Wate	Water Permitting	11-21-1999
Physical Location:	4 Mi NE of Galilano, LA			
Mailing Address:	East 101 A St Galliano, LA 70354			
Location of Front Gate:		29" 27" 45" latitude, 90" 18' 20" longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27	um: NAD27	
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	CaSandra J. Cooper-Gates CaSandra J. Cooper-Gates	PO Box 7250 Metairie, LA 700107250 PO Box 7250 Metairle, LA 700107250	5043839282 (WP) 5043639282 (WP)	Responsible Official for Water Billing Party tor
Related Organizations:	Nаme	Address	Phone (Type)	Relationship

SIC Codes: 4612, Crude petroleum pipelines

Louisiana Offshore Oil Port Inc

LOOP LLC

Note: This report entitied "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.
Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr.
David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

Air Billing Party for UST Billing Party for

One Seine Court Box 6638 New Orleans, LA 70174

PO Box 1670 Larose, LA 703731670 PO Box 1670 Larose, LA 703731670

Operates

5043685667 (WP) 5043685667 (WP)

At ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

Subject Item Inventory:

<u> </u>	Total delication of	Tank Votume	May Assessing Date	Normal Occasion Bath		Contraction Time
<u> </u>			Part Remarks come	Running of the second		Bin Bin Bodo
EQT003	1-78 Crude Rellef Tank - External Floating Roof (Clovelly Dome)	2.31 million gallons		23.1 MM gallons/yr		8760 hr/yr (All Year
EQT004	5-78 Stop Oil Tank (Small Bost Harbor)	79315 gallons		84000 gallons/yr	wastwater and lube oils	8760 hrzyr (All Year
EQT005	7-78 Turbine Generator (Clovelly Dome)		275.6 MM BTU/hr	275.8 MM BTU/hr		320 hrvyr (All Year)
EQT006	11-78 Fourchon Booster Station Tank No. 1 - Diesel Fuel Oil	1.18 million gallons		23 MM gallons/yr		8760 hr/yr (All Year
ЕФТ007	12-78 Salt Dome Cavities (9), Plping, and Brine Storage Reservoir (Clovelly Dome)	1806 million gailons		600 MM bal/yr		8760 hr/yr (All Year
EQT008	13-78 Fourchon Booster Station Tank No. 2 - Diesel Fuel Oil	1.18 million gallons		23 MM gallons/yr		8760 hryr (All Year
EQT009	15-78 Fourchon Booster Station - Standby Generator		-	6.18 MM BTU/hr		69 hrlyr (All Year)
EQT010	16-78 Fire Pump (Small Boat Harbor)			1.01 MM BTU/hr		156 hr/yr (All Year)
EQT011	17-78 Operations Center Standby Generator (Clovelly Dome)			5.62 MM BTU/hr		52 hrfyr (All Year)
EQT012	18-78 Emergency Crude Transfer Pump (Clovelly Dome)			6.58 MM BTU/hr		264 hr/vr (All Year)
EQT013	19-78 Portable Diesel Generator (Clovelly Doma)			1.26 MM BTU/hr		52 hrlyr (All Year)
EQT014	20-78 Clovelly Fire Pump			1.92 MM BTU/hr		19 hrlyr (All Year)
EQT015	21-78 Standby Generator - Brine Storage Raservoir (Clovelly Dome)			1.26 MM BTU/hr		26 hryr (All Year)
EQT016	23-86 Tank 1 Operations Center - Gasoline Tank (Clovelly Dome)	1000 gallons		9000 gallons/yr		8760 hryr (All Year
EQT017	24-88 Tank 2 Operations Center - Gasoline Tank (Clovelly Dome)	1000 gallons		9000 gallons/yr		8760 hr/yr (All Year
EQT018	35-88 Fire School Fire Pump (Clovelly Dome)			.69 MM BTU/hr		826 hrlyr (All Year)
EQT019	38-91 Operations Center - Fire Pump (Clovelly Dome)			2.97 MM BTU/hr		52 hr/vr (All Year)
EQ.T020	5-99 Crude Oil Tenkfarm Firewater Pump (Clovelly Dome)			1100 horsepower		52 hr/vr (All Year)
EQT021	1-07 Emergency Generator			755 brake hp		4.5 hr/yr (All Year)
EQT022	2-07 Emergency Generator			755 brake hp		4.5 hr/yr (All Year)
EQT023	3-07 Emergency Generator			755 brake hp		4.5 hr/yr (All Year)
EQT024	4-07 Emergency Generator			755 brake hp		4.5 hrlyr (All Year)
EQT025	5-07 Emergency Generator			364 brake hp	· .	4.5 hr/yr (All Year)
EQT026	6-07 Emergency Generator			207 brake hp		4.5 hr/yr (All Year)
EQT027	1-99 Tank 6401 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (Ail Year
EQT028	2-99 Tank 6402 (Clovelly Dome)	199 000009		45000 bbl/day		8760 hr/yr (All Year
EQT029	3-99 Tank 6405 (Clovelly Dome)	600000 bbi		45000 bbl/day		8760 hr/yr (All Year
EQT030	4-99 Tank 6406 (Clovelly Dome)	600000 bbi		45000 bbl/day		8760 hr/yr (All Year
EQT031	6-02 Tank 6409 (Clovelly Dome)	199 000009		45000 bbl/day		8760 hr/yr (All Year
EQT032	7-02 Tank 6410 (Clovelly Dome)	199 000009		45000 bbl/day		8760 hr/yr (All Year
EQT033	8-07 Tank 6403 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year
EQT034	!	600000 bbl		45000 bbl/day		8760 hr/yr (All Year
EQT035	10-07 Tank 6407 (Clovelly Dome)	P 000009		45000 bbl/day		8760 hr/yr (All Year
EQT036	11-07 Tank 6408 (Clovelly Dome)	Md 000009		45000 bbl/day		8760 hr/yr (All Year

Page 1 of 4

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

Subject Item Inventory:

₽	Description	Tank Volume	Tank Volume Max. Operating Rate Normal Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT037	EQT037 12-07 Tank 6411 (Clovelly Dome)	199 000009		45000 bbl/day		8760 hr/yr (All Year
EQT038	EQT038 13-07 Tank 6412 (Clovelly Dome)	199 000009		45000 bbl/day		8760 hr/yr (Ali Year
EQT039	EQT039 14-07 Tank 6413 (Clovelly Doma)	600000 bbl		45000 bbl/day		8760 hr/vr (All Year
EQT040	EQT040 15-07 Tank 8414 (Clovelly Dome)	199 000009		45000 bbl/day		8750 hrvr (All Year
FUG001	:UG001 10-78 Fugitive Emissions (Clovelly Dome)			Not applicable		8760 hrlyr (All Year

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Subject them Groups.	
ID Description	Included Components (from Above)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT27 1-99 Tank 6401 (Clovelly Dome)
GRP003 Crude Oll Storage Tank CAP (Clovelly Dome)	EQT28 2-99 Tank 6402 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT29 3-99 Tank 6405 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT30 4-99 Tank 6406 (Clovally Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT31 6-02 Tank 6409 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT32 7-02 Tank 8410 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT33 8-07 Tank 6403 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT34 9-07 Tank 6404 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT35 10-07 Tank 6407 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT36 11-07 Tank 6408 (Clovelly Dome)
SRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT37 12-07 Tank 6411 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovetly Dome)	EQT38 13-07 Tank 6412 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT39 14-07 Tank 6413 (Clovelly Dome)
GRP003 Crude Oil Storage Tank CAP (Clovelly Dome)	EQT40 15-07 Tank 6414 (Clovelly Dome)
GRP004 Entre Facility	EQT3 1-78 Crude Relief Tank - External Fibating Roof (Clovelly Dome)
GRP004 Entire Facility	EQT4 5-78 Slop Oil Tank (Small Boat Harbor)
GRP004 Entire Facility	EQT5 7-78 Turbine Generator (Clovetly Dome)
GRP004 Entire Facility	EQT6 11-78 Fourchon Booster Station Tank No. 1 - Diesel Fuel Oil
GRP004 Entire Facility	EQT7 12-78 Salt Dome Cavities (9), Piping, and Bithe Storage Reservoir (Clovelly Dome)
GRP004 Entire Facility	EQT8 13-78 Fourchon Booster Station Tank No. 2 - Diesel Fuel Oil
SRP004 Entire Facility	EQT9 15-78 Fourchon Booster Station - Standby Generator
SRP004 Entire Facility	EQT10 16-78 Fire Pump (Small Boat Harbor)
GRP004 Entire Facility	
GRP004 Entire Facility	EQT12 18-78 Emergency Crude Transfer Pump (Clovelly Dome)
GRP004 Entire Facility	EQT13 19-78 Portable Diesel Generator (Clovelly Dome)
GRP004 Entire Facility	EQT14 20-78 Clovelly Fire Pump
GRP004 Entire Facility	EQT15 21-78 Standby Generator - Brine Storage Reservoir (Clovelly Dome)
GRP004 Entire Facility	EQT16 23-88 Tank 1 Operations Center - Gasoline Tank (Clovelly Dome)

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AI ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

Subject Item Groups:

Included Components (from Above)	EQT17 24-88 Tank 2 Operations Center - Gasoline Tank (Clovelly Dome)	EQT18 35-88 Fire School Fire Pump (Clovelly Dome)	EQT19 38-91 Operations Center - Fire Pump (Clovelly Dome)	EQT20 5-99 Crude Oil Tankfarm Firewater Pump (Clovelly Dome)	EQT21 1-07 Emergency Generator	EQT22 2-07 Emergency Generator	EQT23 3-07 Emergency Generator	EQT24 4-07 Emergency Generator	EQT25 5-07 Emergency Generator	EQT26 6-07 Emergency Generator	EQ127 1-99 Tank 6401 (Clovelly Dome)	EQT28 2-99 Tank 6402 (Clovelly Dome)	EQT29 3-99 Tank 6405 (Clovelly Dome)	EQT30 4-99 Tank 6406 (Clovelly Dome)	EQT31 6-02 Tank 6409 (Clovelly Dome)	EQT32 7-02 Tank 6410 (Cloyelly Dome)	EQT33 8-07 Tank 6403 (Clovelly Dome)	EQT34 9-07 Tank 6404 (Clovelly Dome)	EQ135 10-07 Tank 6407 (Cloyelly Dome)	EQT36 11-07 Tank 6408 (Clovelly Dome)	EQT37 12-07 Tank 8411 (Clovelly Dome)	EQT38 13-07 Tank 6412 (Clovelly Dome)	EQT39 14-07 Tank 6413 (Clovelly Dome)	EQ140 15-07 Tank 6414 (Clovelly Dome)	FIIGH 10-78 Findlive Emissions (Clovelly Dome)	
Description	SRP004 Entire Facility	3RP004 Entire Facility	3RP004 Entire Facility	GRP004 Entire Facility	3RP004 Entire Facility	SRP004 Entire Facility	SRP004 Entire Facility	SRP004 Entire Facility	SRP004 Entire Facility		SRP004 Entire Facility	GRP004 Entire Faculty	SRP004 Entire Facility	SRP004 Entire Facility	SRP004 Entire Faculty	GRP004 Entire Facility	GRP004 Entire Facility	GRP004 Entire Facility	SRP004 Entire Facility	3RP004 Entire Facility	SRP004 Entire Facility	SRP004 Entire Facility	GRP004 Entire Facility	GRP004 Entire Facility	GRP004 Entire Facility	

Relationships:

Stack Information:	mation:						
5		Velocity	Flow Rate	Olameter	Discharge Area	Height	Temperatu
		(fl/sec)	(cubic f/min-actual)	(teet)	(square feet)	(teet)	(0F)
EQT005	EQT005 7-78 Turbine Generator (Clovelly Dome)	198	208000	4		40	928
EQT009	EQT009 15-78 Fourchon Booster Station - Standby Generator	237	5014	.57		16	850
EQT010	EQT010 16-78 Fire Pump (Small Boat Harbor)	198	808	.21		7	895
EQT011	17-78 Operations Center Standby Generator (Clovelly Dome)	161	6759	29.		18	865
EQT012	18-78 Emergency Crude Transfer Pump (Clovelly Dome)	225	5300	9.		16	880
EQT013	EQT013 19-78 Portable Diesel Generator (Clovelly Dome)		212	.33		10	1100

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

Stack Information:

<u>0</u>		Velocity (f/sec)	Flow Rate (cubic f/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperatu: (oF)
EQT014	EQT014 20-78 Clovelly Fire Pump	238	1943	.42		12	185
EQT015	21-78 Standby Generator - Brine Storage Reservoir (Clovelly Dome)	212	1100	.33		10	1100
EQT018	35-88 Fire School Fire Pump (Clovelly Dome)	386.2	790	.21		8	820
EQT019	38-91 Operations Center - Fire Pump (Clovelly Dome)	386.2	790	.21	i	9	820
EQT020	5-99 Crude Oli Tankfarm Firewater Pump (Clovelly Dome)	1.35	707	1.28		9	870
EQT021	1-07 Emergency Generator	307.7	3625	τú		9.38	901
EQT022	ı	307.7	3625	č.		9.38	901
EQT023	3-07 Emergency Generator	220.69	2600	c.		9.83	810
EQT024	4-07 Emergency Generator	220.69	2600	£Ç.		9.83	810
EQT025	5-07 Emergency Generator	135.94	1130	.42		10.25	1056
EQT026	6-07 Emergency Generator	304.9	858	.25		10.58	950

Fee Information:

Sub) item id Multiplier

GRP004

Units Of Measure

Fee Desc 1364 - Crude Oil Pipeline - Facility with Over 500,000 BBLS Storage Capacity

EMISSION RATES FOR CRITERIA POLLUTANTS

Ai ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

All phases

Max lb/hr Tons/Year Avg lb/hr 3.25 0.52 136.88 1.92 0.07 1.79 1.74 0.05 1.63 2.04 0.27 1.81 0.39 0.01 0.36 0.59 0.01 0.37 0.59 0.01 0.56 0.59 0.01 0.56 0.59 0.01 0.56		PM ₁₀			sos			NOx			00			VOC		
3.26 0.52 1.38 88 1.36 88 21.50 238.52 238.52 38.16 0.89 0.80 0.14 0.11 0.11 0.11 0.11 0.12 0.10 0.		Avg lb/hr		Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max Ib/hr	Tons/Year	Avg lb/hr	Max Ib/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
3.26 0.52 136.88 136.88 21:90 238.52 38.16 0.89 0.68 0.14 0.11 0.11 0.11 0.11 0.11 0.11 0.11														0.38		1.65
3.25 0.65																0.01
1.52 0.07 1.79 0.06 27.23 27.25 0.94 5.87 5.87 0.20 2.16 2.16 0.31 0.02 0.29 0.02 4.47 4.47 0.35 0.96 0.96 0.08 0.35 0.35 1.74 0.05 1.83 1.83 0.04 24.77 24.77 0.84 5.34 0.14 1.87 1.87 0.39 0.01 0.37 0.01 5.56 5.86 0.07 1.20 0.02 0.04 0.39 0.00 0.00 0.20 0.01 3.02 0.01 3.02 0.15 0.05 0.05 0.00 0.06 0.31 0.00 0.37 0.01 5.56 5.86 0.07 1.20 1.20 0.02 0.04 0.39 0.00 0.00 0.86 0.08 0.00 13.11 13.11 0.34 2.82 2.82 0.07 1.04 1.04 0.39 0.00 0.00 0.86 0.86 0.00 13.11 13.11 0.34 2.82 2.82 0.07 1.04 1.04		3.25					21.90	238.52	238.52	38.16	0.89	0.89	0,14		0.11	0.02
1.92 0.07 1.79 1.79 0.06 27.23 27.25 0.94 5.87 0.20 2.16 2.16 0.31 0.02 0.29 0.29 0.02 4.47 4.7 0.56 0.96 0.96 0.08 0.35 0.35 1.74 0.05 1.63 0.04 24.77 24.77 24.77 0.64 5.34 5.34 0.14 1.37 1.97 2.04 0.27 1.91 1.91 0.25 29.00 2.900 3.83 6.25 6.25 0.82 2.30 2.30 0.39 0.01 0.37 0.37 0.37 0.37 0.37 0.31 5.66 0.014 1.20 1.20 0.03 0.44 0.44 0.39 0.01 0.20 0.20 0.01 5.66 5.86 0.015 0.015 0.08 0.06 0.06 0.39 0.01 0.20 0.20 0.01 3.02 3.02 0.15 0.05 0.03 0.24 0.24 0.99 0.02 0.03 0.04 0.04 3.02 3.02 0.15 0.05 0.05 0.05 0.05 0.07 0.09 0.00 0.00 3.02 1.311 1.311 0.34 2.82 2.82 0.07 1.04 1.04				,										0.10	0.10	0.46
1.82 0.07 1.79 1.79 0.06 27.25 27.26 0.94 5.87 5.87 0.20 2.16 2.16 0.31 0.02 0.29 0.02 4.47 24.77 24.77 0.35 0.36 0.96 0.08 0.35 0.35 1.74 0.05 1.63 1.63 0.04 24.77 24.77 24.77 0.64 5.34 0.14 1.87 1.87 2.04 0.27 1.91 1.51 0.25 29.00 29.00 3.83 6.25 6.25 0.08 0.35 0.35 0.03 0.01 0.37 0.37 0.01 5.56 0.14 1.20 1.20 0.03 0.44 0.44 0.39 0.01 0.36 0.01 5.56 0.06 1.32 1.82 0.03 0.44 0.44 0.39 0.01 0.37 0.01 5.56 0.06 1.30 0.02 0.07 1.20 0.02 0.04 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.40</td> <td>0.40</td> <td>1.74</td>														0.40	0.40	1.74
1.62 0.07 1.79 0.06 27.25 27.26 0.94 5.87 5.87 0.20 2.16 2.16 0.31 0.02 0.29 0.02 4.47 4.47 0.35 0.36 0.08 0.35 0.35 0.35 1.74 0.05 1.63 0.04 24.77 24.77 0.64 5.34 0.14 1.97 1.97 1.97 2.04 0.27 1.63 0.04 24.77 24.77 0.64 5.34 0.14 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 0.35 0.36 0.34 0.34 0.34 0.34 0.34 0.34 0.44 0.														0.10	0.10	0.46
0.31 0.02 0.29 0.02 4.47 0.35 0.36 0.96 0.96 0.06 0.37 0.38 0.39 0.39 0.05 <th< td=""><td> </td><td>1.92</td><td></td><td></td><td>1.79</td><td>1.79</td><td>0.08</td><td>27.25</td><td>27.25</td><td></td><td>5.87</td><td>5.87</td><td>0.20</td><td></td><td>2.16</td><td>0.07</td></th<>		1.92			1.79	1.79	0.08	27.25	27.25		5.87	5.87	0.20		2.16	0.07
1.74 0.05 1.63 1.63 0.04 24.77 24.77 0.64 5.34 6.34 0.14 1.97 <		0.31	0.31			0.29	0.02	4.47	4.47	0.35	0.96	96.0	0.08		0.35	0.03
2.04 0.27 1.91 0.25 29.00 29.00 3.83 6.25 6.25 0.82 2.30 2.30 0.39 0.01 0.37 0.37 0.01 5.56 5.56 0.14 1.20 0.03 0.44 0.44 0.59 0.01 0.56 0.01 8.46 0.08 1.82 1.82 0.02 0.67 0.67 0.39 0.01 0.37 0.01 5.56 5.56 0.07 1.20 0.02 0.67 0.67 0.39 0.01 0.37 0.01 5.56 5.56 0.07 1.20 0.02 0.67 0.66 0.06 0.21 0.01 3.02 0.01 1.20 0.02 0.02 0.04 0.06		1.74			1.63	1.63	0.04	24.77	24.77	0.64	5.34	5.34	0.14		1.97	0.05
0.39 0.01 0.37 0.01 6.56 0.14 1.20 1.20 0.03 0.44 0.44 0.59 0.01 0.56 0.01 8.46 0.08 1.82 0.02 0.67 0.67 0.39 0.01 0.56 0.01 5.56 5.56 0.07 1.20 1.20 0.02 0.44 0.44 0.39 0.01 5.56 5.56 0.07 1.20 1.20 0.02 0.44 0.44 0.20 0.01 5.56 5.56 0.07 1.20 1.20 0.02 0.44 0.44 0.20 0.20 0.01 3.02 0.07 1.20 1.20 0.02 0.06 0.07 1.04 1.04		2.2	2.04		1.91	1.91	0.25	29.00	29.00		6.25	6.25	0.82	2.30	2.30	0.30
0.59 0.01 0.56 0.01 8.46 0.08 1.82 1.82 0.02 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.64 0.66 0.07 0.04 <th< td=""><td>1</td><td>0.39</td><td></td><td></td><td>0.37</td><td>0.37</td><td>0.01</td><td>5.56</td><td>5.56</td><td></td><td>1.20</td><td>1.20</td><td>0.03</td><td></td><td>0.44</td><td>0.01</td></th<>	1	0.39			0.37	0.37	0.01	5.56	5.56		1.20	1.20	0.03		0.44	0.01
0.39 0.01 0.37 0.01 5.56 5.56 0.07 1.20 1.20 0.02 0.44 0.44 0.21 0.01 0.02 0.01 0.01 0.06 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.		0.59			0.56	0.56	0.01	8.46	8.46		1.82	1.82	0.02		0.67	0.01
0.21 0.01 0.20 0.02 0.01 3.02 3.02 0.15 0.65 0.05 0.03 0.24 0.05 0.92 0.02 0.86 0.02 13.11 13.11 0.34 2.82 2.82 0.07 1.04 1.04 0.77 0.77 7.12 7.12 0.18 26.40 26.40 0.69 6.05 0.16 0.78 0.78 0.78 0.78		0.39			0.37	0.37	0.01	5.56	5.56	0.07	1.20	1.20	0.02		0.44	0.01
0.21 0.01 0.20 0.02 0.01 3.02 3.02 0.15 0.65 0.65 0.03 0.24 0.24 0.92 0.02 0.86 0.02 13.11 13.11 0.34 2.82 2.82 0.07 1.04 1.04 0.77 0.02 7.12 7.12 0.18 26.40 26.40 0.69 6.05 0.16 0.78 0.78 0.78														90.0	0.08	0.27
0.21 0.01 0.20 0.02 0.03 0.24 0.24 0.24 0.92 0.02 0.02 0.01 13.11 0.34 2.82 2.82 0.07 1.04 1.04 0.77 0.77 0.02 7.12 7.12 0.18 26.40 26.40 0.69 6.05 6.05 0.16 0.78 0.78 0.78														0.06	90.0	0.27
0.92 0.02 0.86 0.86 0.02 13.11 13.11 0.34 2.82 2.82 0.07 1.04 1.04 0.77 0.02 7.12 7.12 0.16 26.40 26.40 0.69 6.05 6.05 0.16 0.78 0.78		0.21	0.21		0.20	0.20	0.01	3.02	3.02	0.15	0.65	0.65	0.03	0.24	0.24	0.01
0.77 0.02 7.12 7.12 0.18 26.40 26.40 0.69 6.05 6.05 0.16 0.78 0.78		0.92	0.92		0.86	0.86	0.02	13.11	13.11	0.34	2.82	2.82	0.07	1.04	1.04	0.03
		0.77	0.77		7.12	7.12	0.18	26.40	26.40	0.69	6.05	6.05	0.16		0.78	0.02

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EMISSION RATES FOR CRITERIA POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

All phases

	Tons/Year	0.01	0.01	10.0	0.04	0.01	0.01	T				_			T				T					
		0.53 <	0.53 <	0.53 <	0.53 <	0.90	0.51 <	46		46	48	_	46	46	46		46	46	46		48	_	84	194
	Max Whr						0.	2730.46		2730.46	2730.46		2730.46	2730.46	2730.46		2730.46	2730.46	2730.46		2730.48		2730.48	2730.46
Voc	Avg lb/hr	0.53	0.53	0.53	0.53	06.0	0.51																	
-	Tons/Year	0.01	0.01	0.01	0.01	0.01	0.01																	-
	Max Ib/hr T	4.15	4.15	4.15	4.15	2.43	1.38																	
8	Avg Ib/hr	4.15	4.15	4.15	4.15	2.43	1.38		-							i				-				
	Tons/Year	0.04	0.04	9.0	0.04	0.03	0.01		-									-						
	Max lb/hr	18.12	18.12	18.12	18.12	11.28	6.42																_	
NOX	Avg lb/hr	18.12	18.12	18.12	18.12	11.28	6.42	-																
	Tons/Year	0.0	0.01	0.01	0.01	c 0.01	• 0.01				-						•		+				_	
	Max lb/hr	4.89	4.89	4.89	4.89	0.75	0.42						-						+					
302	Avg lb/hr	4.89	4.89	4.89	9.89	0.75	0.42			-													_	
	Tons/Year	0.01	> 0.01	0.01	> 0.01	c 0.01	× 0.01										,							
	Max lb/hr	0.53	0.53	0.53	0.53	08'0	0.46												+					
PM10		0.53	0.53	0.53	0.53	08:0	0.46						_				_							
	Subject Item	EQT 021 1-07	EQT 022 2-07	EQT 023 3-07	EQT 024	EQT 025	5-07 EQT 026	EQT 027	887	EQT 028	EQT 029	3-09	EQT 030	EQT 031 6-02	EQT 032	7-02	EQT 033	EQT 034	EQT 035	10-01	EQT 036	11-07	EQT 037	EQT 038

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TP0R0145

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Air - Minor (Synthetic) Modification Permit Number: 1560-00027-03

All phases

				ļ										
	PM ₁₀			30 ₂		XON			၀၁			NOC		
Subject Item	Avg Ib/hr	Avg Ib/hr Max Ib/hr Tons/Year Avg Ib/hr Max Ib/hr	Tons/Year	Avg ib/hr	Tons/Year	Avg lb/hr	Max Ib/hr	Tons/Year	Avg lb/hr	Max Ib/hr	Tons/Year Avg lb/hr Max lb/hr Tons/Year Avg lb/hr Max lb/hr Tons/Year Avg lb/hr Max lb/hr Tons/Year	Avg lb/hr	Max Ib/hr	Tons/Year
EQT 039													2730.46	
14-07												-		•
EQT 040													2730.48	
19-07														
FUG 001												< 0.01	0.01 < 0.01 <	< 0.01
10-78														
GRP 003												20.18	_	88.39
TANK CAP	•													

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 1.05 tons/yr SO2: 22.56 tons/yr NOx: 45.56 tons/yr CO: 1.76 tons/yr

Emission rates Notes:

VOC. 93.82 tons/yr

EMISSION RATES FOR TAPIHAP & OTHER POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1660-00027-03

Air - Minor (Synthetic) Modification

All phases

•	Acotolobudo			Bonne											
		3				-				Euryi Deniza	2		romaldenydo	op/	
Subject Item	Avg lb/hr		Max lb/hr Tons/Year	Avg	Max	Torra	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max 15/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 003				0.004	0.004	0.017				< 0.001	< 0.001	0.002			
EQT 006				< 0.001	× 0.001	0.001				c 0.001	< 0.001	0.001			
EQT 007				0.002	0.002	0.010	> 0.001	> 0.001	0.002	0.002	0.002	0.007			
EQT 008 13-78				> 0.001	< 0.001	0.001				c 0.001	< 0.001	0.001			
EQT 012 18-78	0.005	0.005	0.001	900.0	0.006	0.001							0.008	0.008	0.001
EQT 016 23-08				> 0.001	< 0.001	0.001									
EQT 017				< 0.001	< 0.001	0.001									
EGT 027					29.76			0.273			1.91				
EQT 028					29.76			0.273			1.91				
EQT 029 3-69					29.76			0.273			1.91				
EQT 030					29.76			0.273			1.91				
EQT 031					29.76			0.273			1.91				
EQT 032					29.76			0.273			1.91				
EQT 033 8-07					29.76			0.273			1.91				
EQT 034 9-07					29.76			0.273			1.91				
EQT 035					29.76			0.273			1.91				
EQT 036 11-07					29.76			0.273			1.91				
EQT 037 12-07					29.76			0.273			1.91				

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EMISSION RATES FOR TAPIHAP & OTHER POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

All phases

	Toluene			Xylene (mixed Isomers)	ed Isomers		n-Hexane		
Subject Item	Ava lb/hr	Max (b/hr	Tons/Year	Ava lb/hr	Max ib/hr	Max lb/hr Tons/Year	Avo lb/hr	Max (b/hr	Max th/hr Tons/Vear
EQT 003	0.002	0.002	0.009	0.001	0.001	0.005	0.004	0.004	0.019
1-78	į								
EQT 006	0.002	0.002	0.011	9000	900.0	0.027			
11-78									
EQT 007	0.004	0.004	0.017	9000	9000	0.024	0.002	0.002	200.0
200 701	0000	0000	,,,,	3					
EQ 7 008	0.002	0.002	0.011	0.006	0.006	0.027			
0.50									
EQT 012									
18.78					•				
EQT 016	< 0.001	< 0.001	0.002				> 0.001	< 0.001	0.001
23-66									
EQT 017	< 0.001	< 0.001	0.002				< 0.001	< 0.001	0.001
24-88									
EQT 027		14.47		•	5.73			31.95	
1-89			i						
EQT 028		14.47			5.73			31.95	
2-09									
EQT 029		14.47			5.73			31.95	
3.90									
EQT 030		14.47			5.73			31.95	
8									
EQT 031		14.47			5.73			31.95	
25									
EQT 032		14.47			5.73			31.95	
COTOS		44.47			£ 73			34 06	
20, 60		ř			2			2	
EQT 034		14.47			5.73			31.95	
201				-					
EQT 035		14.47			5.73			31.95	
10-07									
EQT 036		14.47			5.73			31.95	
11-07									
EQT 037		14.47			5.73			31.95	
12-07									

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EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

All phases

	Acetaldehyde	e p		Benzene			Cumene			Ethyl benzene	2		Formaldehyde	•p/	
Subject tem Avg lb/hr Max lb/hr Tons/Year Avg lb/hr Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max Ib/hr	Tons/Year	Avg !b/hr	Max Ib/hr	Tons/Year Avg ib/hr Max lb/hr Tons/Year Avg lb/hr Max lb/hr Tons/Year Avg lb/hr Max lb/hr Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max Ib/hr	Tons/Year
EQT 038					29.76			0.273			1.91				:
13-07															
EQT 039					29.76	L.		0.273			16.				
14-07															
EOT 040					29.76		_	0.273			16:1		_		
15-07															
GRP 003				0.203		0.890	0.005		0.021	0.026		2112		_	
TANK CAP															

EMISSION RATES FOR TAPIHAP & OTHER POLLUTANTS

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

All phases

	Toluene		-	Xyleno (mix	Xyfeng (mixed Isomers)	_	n-Hexane		
Subject Item	Avg lb/hr	Max Ib/hr	Tons/Year	Avg lb/hr	Max lb/hr	Avg ibihr Max Ibhr Tons/Year Avg Ibhr Max Ibhr Tons/Year Avg Ibhr Max Ibhr Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 038		14.47			5.73			31.95	
EQT 039		14.47			5.73			31.95	
EQT 040		14.47			5.73			31.95	
GRP 003 TANK CAP	0.123		0.539	0.083		0.364	0.210		0.920

Note: Emission rates in bold are from alternate acenarios and are not included in permitted totals

Permit Parameter Totals:

Acetaldehyde: 0.001 tons/yr Benzene: 0.924 tons/yr Cumene: 0.023 tons/yr Ethyl benzene: 0.124 tons/yr Formaldehyde: 0.001 tons/yr n-Hexane: 0.948 tons/yr Tolluene: 0.590 tons/yr

Emission Rates Notes:

Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

003 1-78 Crude Relief Tank - External Floating Roof (Clovelly Dome)

- t Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 2 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:111.2103.D.2.c] Statistical Basis: None specified Which Months: All Year
 - Seal gap area <= 10 in 21ft of tank diameter (65 cm 2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified
- Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Secondary seats: Seat gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Prunary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 9
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a stotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set run vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg steeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a run mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D] 7
 - Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1] 2
 - Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1. 7, as applicable. [LAC 33:III.2103.1]
 - 16 The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]
- Seal gap area <= 10.0 in^2/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary Statistical Basis: None specified scal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
 - Seal gap width <= 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted prumary seal. Subpart Ka. [40] Which Months: All Year CFR 60.112a(a)(1)(i)(A)] 18

Which Months: All Year Statistical Basis: None specified

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Alr - Minor (Synthetic) Modification

[003 1-78 Crude Rellef Tank - External Floating Roof (Clovelly Dome)

- 19 One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(C)]
 - There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
- Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- Seal gap area <= 1.0 in^2/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted prumary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)] Which Months: All Year Statistical Basis: None specified 22
 - Seal gap width <= 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquidmounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)] 24
- actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being automatic bleeder vents, run space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for anded on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40] CFR 60.112a(a)(1)(iii)]
 - Provide each emergency roof dram with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40] 27 Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device (primary). The roof is to be floating on the liquid at all tunes (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other
 - Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the primary seal inspections or gap measurements which require the removal or distodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all Which Months: All Year Statistical Basis: None specified possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)]
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR
 - Which Months: All Year Statistical Basis: None specified
- measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. 30 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)]

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT003 1-78 Crude Relief Tank - External Floating Roof (Clovelly Dome)

- maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40] 31 Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured
 - Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)] 32
- 33 Petroleum liquid storage data recordiceping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum rue vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Kat all timesa. [40 CFR 60.115a]

EQT005 7-78 Turbine Generator (Clovelly Dome)

- 34 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC
- Which Months: All Year Statistical Basis: Six-minute average
- exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
 - 36 Operating time <= 320 hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total annual operating time for the turbine generator exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Annual maximum
 - 37 Operating tune monitored by technically sound method continuously during operation as dictated during emergency events. [LAC 33:1II.501.C.6]
- 38 Operating time recordiscepting by electronic or hard copy monthly. Keep records of the total operating time of the turbine generator each month, as well as the total operating tune of the turbine generator for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Annual maximum
- Submit report: Due annually, by the 31st of March. Report the total annual operating time of the turbine generator for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
 - Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)] Which Months: All Year Statistical Basis: None specified 6
- 41 Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(h)(3). Monitor the total sulfur methods described in 40 CFR 60.335(b)(10). Subpart GG. [40 CFR 60.334(h)(1)] Which Months: All Year Statistical Basis: None specified
 - 60.332(f) is in effect. Report the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated. Subpart Submit quarterly excess emissions report: Due by the 30th day following the end of each calendar quarter. Report periods during which an exemption provided in 40 CFR GG. [40 CFR 60.334(j)(3)] 42
- Include each period during which an exemption provided in 40 CFR 60.332(k) is in effect in the report required in 40 CFR 60.7(c). For each period, report the type, reasons, and duration of the firing of the emergency fuel. Subpart GG. [40 CFR 60.334(j)(4)] 43
 - Submit excess emissions reports and monitor downtime in accordance with 40 CFR 60.7(c). Report excess emissions for all periods of unit operation, including startup, shutdown and malfunction. Subpart GG. [40 CFR 60.334(j)] 4
 - Determine compliance using the test methods and procedures specified in 40 CFR 60.335(a) through (c). Subpart GG. [40 CFR 60.335]

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A) ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Activity Number: PER20070001 Permit Number: 1560-00027-03

15-78 Fourchon Booster Station - Standby Generator EQT009

46 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC

Which Months: All Year Statistical Basis: Six-minute average

Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 47

16-78 Fire Pump (Small Boat Harbor) EQT010

48 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC

exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Which Months: All Year Statistical Basis: Six-minute average Equipment of Equency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 49

17-78 Operations Center Standby Generator (Clovelly Dome) EQT011

50 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC]

Which Months: All Year Statistical Basis: Six-minute average

Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 2

18-78 Emergency Crude Transfer Pump (Clovelly Dome) EQT012

52 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC

Which Months: All Year Statistical Basis: Six-minute average

exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available 53 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

19-78 Portable Diesel Generator (Clovelly Dome) EQT013

54 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Statistical Basis: Six-minute average Which Months: All Year

exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 55

Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Permit Number: 1560-00027-03 Activity Number: PER20070001

20-78 Clovelly Fire Pump EQT014

- 56 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive infinites. [LAC
- Which Months: All Year Statistical Basis: Six-minute average
- exemption from the provisions of LAC 33:111. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 57

21-78 Standby Generator - Brine Storage Reservoir (Clovelly Dome) EQT015

- 58 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC]
- exemption from the provisions of LAC 33.111. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Which Months: All Year Statistical Basis: Six-minute average

 Se Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

23-88 Tank 1 Operations Center - Gasoline Tank (Clovelly Dome) EQT016

- 60 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 61 Determine VOC maxumum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 62 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:111.2103.1.1 7, as applicable. [LAC 33:111.2103.1]

24-88 Tank 2 Operations Center - Gasoline Tank (Clovelly Dome)

- 63 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 64 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c. [LAC 33:III.2103.H.3]
- 65 Equipment/operational data recordice ping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1-7, as applicable. [LAC 33:III.2103.I]

35-88 Fire School Fire Pump (Clovelly Dome) EQT018

- 66 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC
 - Which Months: All Year Statistical Basis: Six-minute average 67
- exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

38-91 Operations Center - Fire Pump (Clovelly Dome) EQT019

Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Permit Number: 1560-00027-03 Activity Number: PER20070001

38-91 Operations Center - Fire Pump (Clovelly Dome) EQT019

- 68 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC
- Which Months: All Year Statistical Basis: Six-minute average
- exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 69

5-99 Crude Oil Tankfarm Firewater Pump (Clovelly Dome) EQT020

- 70 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC
- Statistical Basis: Six-minute average Which Months: All Year
- exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available 71 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

1-07 Emergency Generator EQT021

- 72 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC]
- Statistical Basis: Six-minute average Which Months: All Year
- exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:111.1513] 73

2-07 Emergency Generator **EQT022**

- 74 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC
- Which Months: All Year Statistical Basis: Six-minute average
- exemption from the provisions of LAC 33.III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available 75 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

3-07 Emergency Generator

- 76 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC
- Which Months: All Year Statistical Basis: Six-minute average
- exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 11

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Al ID; 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT024 4-07 Emergency Generator

- 78 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC
- Which Months: All Year Statistical Basis: Six-minute average
- Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT025 5-07 Emergency Generator

- 80 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive ininutes. [LAC 33:III.1311.CJ
 - Which Months: All Year Statistical Basis: Six-minute average
- Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 8

EQT026 6-07 Emergency Generator

- 82 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC
- Which Months: All Year Statistical Basis: Six-minute average
- exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513] 83

EQT027 1-99 Tank 6401 (Clovelly Dome)

- 84 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- Seal gap area <= 1 m^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Which Months: All Year Statistical Basis: None specified 87
 - Seal gap area <= 10 in 2/ft of tank diameter (65 cm 2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:111.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 88
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:111.2103.D.2.e] Which Months; All Year Statistical Basis: None specified 83
- Secondary scals: Scal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:111.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 6

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

327 1-99 Tank 6401 (Clovelly Dome)

- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33.III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33.III.2103.D.2. [LAC
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 93
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rum space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all 94 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
 - contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D]
 - 96 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 97 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c. [LAC 33:III.2103.H.3]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:1II.2103.I.1 -7, as applicable. [LAC 33:III.2103.I]
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
 - Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the prunary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified <u>=</u>
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 102

Which Months: All Year Statistical Basis: None specified

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AI ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT027 1-99 Tank 6401 (Clovelly Dome)

- 103 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 04

Which Months: All Year Statistical Basis: None specified

Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 50

Which Months: All Year Statistical Basis: None specified

- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 106
 - There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)] . 601
- 108 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 60
 - Scal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - 111 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 112 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 3
- 114 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an unspection is required by 40 CFR 60.113b(6) to afford DEQ have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified
 - Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 117
- Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] 118

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EQT027 1-99 Tank 6401 (Clovelly Dome)

- 119 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the date of measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 120
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)] 122

EQT028 2-99 Tank 6402 (Clovelly Dome)

- 123 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 124 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 125 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 unch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Which Months: All Year Statistical Basis: None specified
 - Seal gap area < 10 in 2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 127
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 128
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 129
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 130
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 131
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:111.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 132
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:1II.2103.D.3] 133

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2-99 Tank 6402 (Clovelly Dome)

- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending 134 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:1II.2103.D]
 - Determine compliance with LAC 33:111.2103.D.2 and 4 using the methods in LAC 33:111.2103.H.1. [LAC 33:111.2103.H.1]
 - 136 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c. [LAC 33:III.2103.H.3]
- 137 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 -7, as applicable. [LAC 33:III.2103.I]
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drains, and leg steeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)] 138
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR <u>4</u>
 - Which Months: All Year Statistical Basis: None specified
- Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- Seal gap area < 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 143
 - Statistical Basis: None specified Which Months: All Year
- Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 144
- Which Months; All Year Statistical Basis: None specified
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 145

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QT028 2-99 Tank 6402 (Clovelly Dome)

- 146 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 147 Install the secondary seal above the prunary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - 150 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 151 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seats not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 153 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEO have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 54
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal. and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR
- Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] 157
 - 158 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)] 9

3-99 Tank 6405 (Clovelly Dome)

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3-99 Tank 6405 (Clovelly Dome) **EQT029**

- 161 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 162 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- Seal gap area <= i in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:111.2103.D.2.c] Which Months: All Year Statistical Basis: None specified 164
 - Seal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:111.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 165
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 166
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 167
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:111.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 168
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33.III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33.III.2103.D.2. [LAC 169
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33.III.2103. Complete repaus within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 170
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a stotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3] 171
- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D] 172
 - Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 174 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 -7, as applicable. [LAC 33:III.2103.I] 175
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]

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EQT029 3-99 Tank 6405 (Clovelly Dome)

- mechanical shoe scal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary scal shall completely cover the annular space between the edge of the 177 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure loating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
 - Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 179
 - Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] Which Months: All Year Statistical Basis: None specified 180
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] 181
 - Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR Statistical Basis: None specified Which Months: All Year 182
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Which Months: All Year Statistical Basis: None specified Kb. [40 CFR 60.113b(b)(4)(i)(A)] 83
 - 184 There are to be no holes, tears, or other openings in the shoe, primary scal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 185 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 981
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 187
 - There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]

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EQT029 3-99 Tank 6405 (Clovelly Dome)

- 191 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 192
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified 193
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 194
- 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement. 195
 - Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 196
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 197
- VOL storage data recordisceping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)] 198

EQT030 4-99 Tank 6406 (Clovelly Dome)

- 199 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 200 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b] 201
- Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Which Months: All Year Statistical Basis: None specified 202
 - Seal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 203
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 204

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EQT030 4-99 Tank 6406 (Clovelly Dome)

- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:111.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33.111.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33.111.2103.D.2. [LAC 207
- Initiate repairs of seats within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:111.2103. Complete repaus within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 208
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a stotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3] 209
 - contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a run mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:1II.2103.D]
 - 211 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 212 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 213 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.i -7, as applicable. [LAC 33:111.2103.1]
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a stotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, run space vents, roof drams, and leg sleeves, equip each opening in the roof with a gasketed cover, seat, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and run space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary scal shall completely cover the annular space between the edge of the Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all tunes (i.e., off the roof leg supports) except during initial fill until the roof is floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a ished off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 215
 - Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the prunary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified 216

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4-99 Tank 6406 (Clovelly Dome) EQT030

- 217 Scal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR
- Statistical Basis: None specified Which Months: All Year
- Add the gap surface area of each gap location for the prumary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR
 - Statistical Basis: None specified Which Months: All Year
- Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 220
 - Which Months: All Year Statistical Basis: None specified
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 221
 - There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)] 222
- Install the secondary seal above the prunary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)] 223
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 225
 - 226 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 227 Make necessary repaurs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 228
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 229
- 230 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal. and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified 231

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4-99 Tank 6406 (Clovelly Dome)

- This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR Submit a report: Due to DEO as an attachment to the notification required by 40 CFR 60.7(a)(3).
- Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CPR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] CFR 60.115b(b)(2)] 233
 - Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 234
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at teast two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 235
- 236 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

6-02 Tank 6409 (Clovelly Dome)

- 237 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 238 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 239 Seal closure devices required in LAC 33:111.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- 240 Seal gap area < 1 in 2/R of tank diameter (6.5 cm 2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Which Months: All Year Statistical Basis: None specified
 - Seal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary scal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:111.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 241
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Statistical Basis: None specified Which Months: All Year 242
- 243 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- 244 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33.111.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33.111.2103.D.2. [LAC 245
- 246 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:111.2103. Complete repaus within three months of the ordering of the repaur parts. [LAC 33:III.2103.D.2.e]

Al ID: 4634 - LOOP LLC - Porf Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Alr - Minor (Synthetic) Modification

QT031 6-02 Tank 6409 (Clovelly Dome)

- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover imes except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all 247 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
 - contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a run mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D]
 - Determine compiliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 250 Determine VOC maximum frue vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 251 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:111.2103.1.1. 7, as applicable. [LAC 33:III.2103.I]
 - times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and run space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drains, and leg steeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)] 252
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 253
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the mitial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)] 255
 - Which Months: All Year Statistical Basis: None specified
- 256 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 257 Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR

Which Months: All Year Statistical Basis: None specified

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AI ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

QT031 6-02 Tank 6409 (Clovelly Dome)

- Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR
 - Which Months: All Year Statistical Basis: None specified
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 261 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 262
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 263
 - There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)] 264
- 265 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 266
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 267
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 268
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified 269
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 270
- 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 271
 - Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 272

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EQT031 6-02 Tank 6409 (Clovelly Dome)

- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all 273 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 274 VOL storage data recordiscepting by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60 116b(c)]

EQT032 7-02 Tank 6410 (Clovelly Dome)

- 275 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 276 Seat closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- Seal gap area <= 1 m^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Statistical Basis: None specified Which Months: All Year
 - Scal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary scal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 280
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 281
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:111.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 282
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 283
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 284
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:111.2103.D.3] 285
- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D] 286
 - 287 Determine compliance with LAC 33:111.2103.D.2 and 4 using the methods in LAC 33:111.2103.H.1. [LAC 33:111.2103.H.1]
 - 288 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:111.2103.1.1 7, as applicable. [LAC 33:111.2103.1]

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EQT032 7-02 Tank 6410 (Clovelly Dome)

- tunes (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seat, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set run vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip 290 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified 292
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)] 293
 - Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] Which Months: All Year Statistical Basis: None specified 294
- Seal gap area <= 212 cm²2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] 295
 - Which Months: All Year Statistical Basis: None specified
- Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] 296
 - Which Months: All Year Statistical Basis: None specified
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 297
 - There are to be no notes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)] . 862
- Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)] 299
- Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 301

Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

- Which Months: All Year Statistical Basis: None specified
 - There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

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Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Permit Number: 1560-00027-03 Activity Number: PER20070001

7-02 Tank 6410 (Clovelly Dome)

- 303 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for scals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. 304
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings m the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 305
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 306
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emplied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified 307
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR
- Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] CFR 60.115b(b)(2)] 309
 - Gap measurement(s) recordkeeping by electronic or hard copy upon cach occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 3
- VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)] 312

8-07 Tank 6403 (Clovelly Dome)

- 313 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 314 Seat closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seats or seal fabric. [LAC 33:III.2103.D.2.a]
- 315 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.bl
- 316 Scal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Statistical Basis: None specified Which Months: All Year

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Ai ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT033 8-07 Tank 6403 (Clovelly Dome)

- 317 Seal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the prumary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:111.2103.D.2.d] Which Months: All Year Statustical Basis: None specified
 - 318 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 320
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 321
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 322
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg steeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3] 323
- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rum mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D] 324
 - Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 -7, as applicable. [LAC 33:III.2103.I] 327
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, run space vents, roof drains, and leg steeves, equip cach opening in the roof with a gasketed cover, seat, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and run space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)] 328
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 329

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER2007001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT033 8-07 Tank 6403 (Clovelly Dome)

- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months; All Year Statistical Basis: None specified
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 331
- Which Months: All Year Statistical Basts: None specified
- Add the gap surface area of each gap tocation for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] 332
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR Statistical Basis: None specified Which Months: All Year 60.113b(b)(4)(i)] 333
 - Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR Which Months: All Year Statistical Basis: None specified 60.113b(b)(4)(i)] 334
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 335
 - There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)] 337
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 338
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - 340 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 341 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 343
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 344

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER2007001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

QT033 8-07 Tank 6403 (Clovelly Dome)

- 345 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified
 - Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR
- 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 347
- Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 348
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 349
- 350 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT034 9-07 Tank 6404 (Clovelly Dome)

- 351 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:111.2103.D.2.c] Which Months: All Year Statistical Basis: None specified 354
 - Seal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 355
- Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.c] Which Months; All Year Statistical Basis: None specified
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:111.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 357
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 358
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33.III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e] 359
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 360

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT034 9-07 Tank 6404 (Clovelly Dome)

- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a stotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set run vents to opening in the roof (except for automatic bleeder vents, run space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all 361 Provide all openings in the external floating roof (except for automatic bleeder vents, run space vent, and leg steeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall, [LAC 33:III.2103.D]
 - 363 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 364 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c. [LAC 33:III.2103.H.3]
- 365 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 -7, as applicable. [LAC 33:III.2103.I]
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, run space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and run space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous lifted offileg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 367
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statustical Basis: None specified 368
 - Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 369
 - Which Months: All Year Statistical Basis: None specified
- Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 371

Which Months: All Year Statistical Basis: None specified

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EQT034 9-07 Tank 6404 (Clovelly Dome)

- 372 Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR
 - Which Months: All Year Statistical Basis: None specified
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 373
 - 374 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 375 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - 378 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 379 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 380
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 381
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the prunary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)] 384
- 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement. CFR 60.115b(b)(2)] 385
 - Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 386

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EQT034 9-07 Tank 6404 (Clovelly Dome)

- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all 387 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- VOL storage data recordiseeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)] 388

EQT035 10-07 Tank 6407 (Clovelly Dome)

- 389 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 390 Scal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 391
- Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Statistical Basis: None specified Which Months: All Year
 - Seal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) m width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 393
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 394
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 395
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 396
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 397
- Initiate repans of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 398
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3] 399
- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D] 400
 - Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 402 Determme VOC maxumum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:111.2103.1.1 -7, as applicable. [LAC 33:III.2103.1]

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10-07 Tank 6407 (Clovelly Dome) EQT035

- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drams, and leg steeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip 404 Except for automatic bleeder vents and run space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 405
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified
 - Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the mitial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 407
- Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] Which Months: All Year Statistical Basis: None specified 408
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] 409
 - Statistical Basis: None specified Which Months: All Year
- Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] 410
 - Which Months: All Year Statistical Basis: None specified
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart 412 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)] Kb. [40 CFR 60.113b(b)(4)(i)(A)] 411
- 413 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart
 - 414 Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Statistical Basis: None specified Which Months: All Year 415
 - Which Months: All Year Statistical Basis: None specified
 - 416 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

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Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Activity Number: PER20070001 Permit Number: 1560-00027-03

10-07 Tank 6407 (Clovelly Dome) EQT035

- 417 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 419
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 420
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified 421
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. (40 CFR 422
- Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] CFR 60.115b(b)(2)] 423
 - Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 424
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs inade and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 425
- VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum frue vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)] 426

11-07 Tank 6408 (Clovelly Dome) EQT036

- 427 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 428 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 429 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- Seal gap area <= 1 m^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Which Months: All Year Statistical Basis: None specified 430

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

2T036 11-07 Tank 6408 (Clovelly Dome)

- 431 Scal gap area <= 10 in^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the prumary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:111.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Secondary scals: Scal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months; All Year Statistical Basis: None specified 433
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 434
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:111.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:111.2103.D.2. [LAC 33:III.2103.D.2.el 435
- Initiate repars of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 436
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover tunes except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3] 437
- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a run mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D]
 - Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 440 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 441 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 -7, as applicable. [LAC 33:III.2103.I]
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set run vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)] 442
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted offileg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 443

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Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Activity Number: PER20070001 Permit Number: 1560-00027-03

11-07 Tank 6408 (Clovelly Dome) EQT036

- 444 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL, and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the mitial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 445
 - Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] Which Months: All Year Statistical Basis: None specified 446
- Seal gap area < 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)) 447
 - Statistical Basis: None specified Which Months: All Year
- Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] 448
 - Statistical Basis: None specified Which Months: All Year
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 449
- 450 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 451 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 452
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 453
 - There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)] 454
- 455 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 456
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 457
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Rb. [40 CFR 60.113b(b)(6)(ii)] 458

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT036 11-07 Tank 6408 (Clovelly Dome)

- 459 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Statistical Basis: None specified
 - This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). 460
- Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] 461
- Gap measurement(s) recordkeeping by electronic or hard copy upon cach occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 462
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 463
- 464 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT037 12-07 Tank 6411 (Clovelly Dome)

- 465 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 466 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 467
- Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Which Months: All Year Statistical Basis: None specified 468
- Seal gap area <= 10 m^2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 469
- Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 470
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 47.1
- Prunary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 472
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 473
- Initiate repaus of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 474

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EQT037 12-07 Tank 6411 (Clovelly Dome)

- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover tunes except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all 475 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg steeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D]
 - Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1, [LAC 33:III.2103.H.1]
 - 478 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 479 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I. | . 7, as applicable. [LAC 33:III.2103.I]
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and run space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rum space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set run vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip 480 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 - device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous lifted offleg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 481
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the prunary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified 482
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)] 483
 - Which Months: All Year Statistical Basis: None specified
- Add the gap surface area of each gap location for the prunary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] 484
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 485

Which Months: All Year Statistical Basis: None specified

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21037 12-07 Tank 6411 (Clovelly Dome)

Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR

Which Months: All Year Statistical Basis: None specified

- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
 - 488 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 489 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 490
 - Seal gap width < 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 491
 - There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)] 493
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 494
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 495
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 496
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fiftings each tune the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified 497
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 498
- 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, CFR 60.115b(b)(2)] 499
 - Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] Š

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Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Activity Number: PER20070001 Permit Number: 1560-00027-03

12-07 Tank 6411 (Clovelly Dome) EQT037

- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)] 502

13-07 Tank 6412 (Clovelly Dome)

- 503 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 504 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 505 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- Seal gap area <= i m^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seat and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Which Months: All Year Statistical Basis: None specified
 - Seal gap area <= 10 in 2/ft of tank diameter (65 cm 2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 507
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Statistical Basis: None specified Which Months: All Year 208
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 209
- 510 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months; All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:111.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:111.2103.D.2. [LAC 511
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three mouths of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 512
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a stotted membrane fabric cover times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set run vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all 513 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- contents and is equipped with a prumary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a run mounted secondary) extending Equip with an external floating roof consisting of a poutoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:111.2103.D] 514
 - 515 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 516 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 517 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 -7, as applicable. [LAC 33:III.2103.I]

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

<u>ЕQТ038</u> 13-07 Tank 6412 (Clovelly Dome)

- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, run space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip 518 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted offileg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 519
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified 520
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)] 521
 - Which Months: All Year Statistical Basis: None specified
- Add the gap surface area of each gap location for the prunary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] 522
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] 523
 - Which Months: All Year Statistical Basis: None specified
- Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)] 524
 - Which Months: All Year Statistical Basis: None specified
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 525
 - 526 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 527 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <= 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 528
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - 530 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT038 13-07 Tank 6412 (Clovelly Dome)

- 531 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 532
- If the external floating roof has defects, the primary scal has holes, tears, or other openings in the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 533
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 534
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified 535
 - Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 536
- Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] 537
- Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 538
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 539
- 540 VOL storage data recordisceping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT039 14-07 Tank 6413 (Clovelly Dome)

- 541 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 542 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 543 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- Seal gap area < 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c] Which Months: All Year Statistical Basis; None specified 544

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

QT039 14-07 Tank 6413 (Clovelly Dome)

- 545 Seal gap area <= 10 in 2/ft of tank diameter (65 cm2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified
 - 546 Secondary Scal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:111.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 547
- 548 Primary soals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:111.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:111.2103.D.2. [LAC 549
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 550
- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be mainfained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set run vents to Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg steeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:111.2103.D.3] 551
 - contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D] 552
 - 553 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - 554 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 555 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 -7, as applicable. [LAC 33:III.2103.I]
- times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and run space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)] 557

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT039 14-07 Tank 6413 (Clovelly Dome)

- 558 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the prunary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)] 559
 - Which Months: All Year Statistical Basis: None specified
- Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] 260
- Scal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary scal. Subpart Kb. [40 CFR Which Months: All Year Statistical Basis: None specified 60.113b(b)(4)(i)] 561
 - Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
 Which Months: All Year Statistical Basis: None specified 562
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)] 563
- 564 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 565 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area <- 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B) Which Months: All Year Statistical Basis: None specified 999
- Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified 267
 - 568 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 569 Make necessary repairs or empty the storage vessel within 45 days of identification in any unspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 570
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 571
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send have known about the unspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 572

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Al ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT039 14-07 Tank 6413 (Clovelly Dome)

- 573 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each tune the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Which Months: All Year Statistical Basis: None specified
 - This report shall describe the control equipment and certify that the control Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the conequipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 574
- 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement CFR 60.115b(b)(2)] 575
 - Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 576
- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] 577
- VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)] 578

EQT040 15-07 Tank 6414 (Clovelly Dome)

- 579 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 580 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 581 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC
- Seal gap area <= 1 in^2/ft of tank diameter (6.5 cm2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [1.AC 33:111.2103.D.2.c] Which Months: All Year Statistical Basis: None specified 582
 - Seal gap area <= 10 in^2/ft of tank dismeter (65 cm2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:111.2103.D.2.d] Which Months: All Year Statistical Basis: None specified 583
 - Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Secondary scals: Scal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified 585
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 587
- Initiate repaus of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33.III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e] 588

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At ID: 4634 - LOOP LLC - Port Complex Activity Number: PER20070001 Permit Number: 1560-00027-03 Air - Minor (Synthetic) Modification

EQT040 15-07 Tank 6414 (Clovelly Dome)

- open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a stotted membrane fabric cover tumes except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all 589 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
 - contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a run mounted secondary) extending Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid from the floating roof to the tank wall. [LAC 33:III.2103.D]
 - Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
 - Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:111.2103.1.1 7, as applicable. [LAC 33:III.2103.1]
- tunes (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or automatic bleeder vents and run space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)] 594
 - mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during mitial fill until the roof is Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous device between the wall of the storage vessel and the roof edge. The closure device consists of two scals, secondary above the primary. The primary seal shall be either a lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the unitial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)] Which Months: All Year Statistical Basis: None specified
 - Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the mitial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 597
 - Which Months: All Year Statistical Basis: None specified
- Add the gap surface area of each gap location for the prunary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] 598
- Seal gap area <= 212 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted prumary seal. Subpart Kb. [40 CFR 599

Which Months: All Year Statistical Basis: None specified

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Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Permit Number: 1560-00027-03. Activity Number: PER20070001

15-07 Tank 6414 (Clovelly Dome) EQT040

- 600 Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR
- Which Months: All Year Statistical Basis: None specified
- One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
 - 602 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 603 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
 - Seal gap area < 21.2 cm^2/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 - 606 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 607 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
 - Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)] 809
- If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)] 609
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)] 610
 - Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)] Statistical Basis: None specified Which Months: All Year 61.
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 612
- 2) the raw data obtained in the measurement, 3) the calculations described in 40 CPR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 613
- Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)] 614

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Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Permit Number: 1560-00027-03 Activity Number: PER20070001

15-07 Tank 6414 (Clovelly Dome) EQT040

- identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all 615 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 616 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

10-78 Fugitive Emissions (Clovelly Dome) FUG001

617 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]

Crude Oil Storage Tank CAP (Clovelly Dome)

- 618 Throughput <= 230 MM bbl/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total annual facility-wide crude oil throughput exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC
 - 619 Throughput monitored by technically sound method continuously. [LAC 33:III.501.C.6] Statistical Basis: Annual maximum Which Months: All Year
- 620 Throughput recordkeeping by electronic or hard copy monthly. Keep records of the total facility-wide crude oil throughput each month, as well as the total facility-wide crude oil throughput for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Annual maximum
 - Submit report: Due annually, by the 31st of March. Report the total annual facility-wide crude oil throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6] 621

Entire Facility GRP004

- 622 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
 - 623 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33.III. 1109.B]
- 624 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by unpairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
 - 625 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- Failure to pay the prescribed application fee or annual fee as provided herem, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219] 626
 - Carbon monoxide <= 1.76 tons/yr. [LAC 33:III.501.C.6] 627
- Which Months: All Year Statistical Basis: Annual maximum Nitrogen oxides <= 45.56 tons/yr. [LAC 33:III.501.C.6] 628
- Statistical Basis: Annual maximum Which Months: All Year

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Al ID: 4634 - LOOP LLC - Port Complex Air - Minor (Synthetic) Modification Activity Number: PER20070001 Permit Number: 1560-00027-03

Entire Facility GRP004

- 629 Particulate matter (10 microns or less) <= 1.05 tons/yr. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Annual maximum
 - Which Months: All Year Statistical Basis: Annual maximum Sulfur dioxide <= 22.56 tons/yr. [LAC 33:III.501.C.6] 630
 - Statistical Basis: Annual maximum Benzene <= 0.924 tons/yr. [LAC 33:III.501.C.6] Which Months: All Year 631
 - VOC, Total <= 93.82 tons/yr. [LAC 33:111.501.C.6] 632
- Which Months: All Year Statistical Basis: Annual maximum Acetaldehyde <= 0.001 tonsfyr. [LAC 33:III.501.C.6] 633
- Which Months: All Year Statistical Basis: Annual maximum 634 (
- Cumene <= 0.023 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
 - Which Months: All Year Statistical Basis: Annual maximum Ethyl benzene <= 0.124 tons/yr. [LAC 33:III.501.C.6] 635
- Which Months: All Year Statistical Basis: Annual maximum Formaldehyde <= 0.001 tons/yr. [LAC 33:III.501.C.6] 636
 - n-Hexane <= 0.948 tons/yr. [LAC 33:III.501.C.6] 637
- Statistical Basis: Annual maximum Which Months: All Year 638
 - Statistical Basis: Annual maximum Toluene <= 0.590 tons/yr. [LAC 33:III.501.C.6] Which Months: All Year
- Xylene (mixed isomers) <= 0.447 tons/yr. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Annual maximum 639
- Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A] 640
- During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B] 641
 - 642 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

APPENDIX B

PART 70 OPERATING PERMIT APPLICATION COMPLETENESS CHECKLIST

5510A C-K Associates, LLC

PART 70 OPERATING PERMIT APPLICATION COMPLETENESS CHECKLIST

Instructions: Complete this checklist and submit with the completed air permit application.

LAC 33:III.	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	NA	Location Within the Permit Application
517.A Timely Submittal	Was a Copy of the Application Also Submitted to EPA?	Х			
517.B.1,2 Certification	Does the Application include a Certification by a Responsible Official?	х			Section 2.0
517.B.3 Certification	Does the Application Include Certification by a Professional Engineer or their Designee:	Х			Section 2.0
517.D.1 Identifying Information	Does the Application Include:				
	1. Company Name, Physical and Mailing Address of Facility?	х			Section 2.0
	2. Map showing Location of the Facility?	х			Figure 1
	3. Owner and Operator Names and Agent?	х			Section 2.0
	4. Name and Telephone Number of Plant Manager or Contact?	х			Section 2.0
517.D.2 SIC Codes, Source Categories	Does the Application Include a Description of the Source's Processes and Products?	х	ľ		Section 1.0
	Does the Application Include the Source's SIC Code?	Х			Section 2.0
	Does the Application Include EPA Source Category of HAPs if applicable?			х	
517.D.3,6 EIQ Sheets	Has an EIQ Sheet been Completed for each Emission Point whether an Area or Point Source?	х			Section 3.0
517.D.4 Monitoring Devices	Does the Application Include Identification and Description of Compliance Monitoring Devices or Activities?	х			Section 2.0
517.D.5 Revisions and Modifications Only	For Revisions or Modifications, Does the Application include a Description of the Proposed Change and any Resulting Change in Emissions?	Х			Section 1.0
517.D.7 General Information	Does the Application Include Information Regarding Fuels, Fuel Use, Raw Materials, Production Rates, and Operating Schedules as necessary to substantiate emission rates?	х			Appendix D
517 D.8 Operating Limitations	Has Information Regarding any Limitations on Source Operation or any Applicable Work Practice Standards been Identified?	х			Section 1.0
517.D.9 Calculations	Are Emission Calculations Provided?	х			Appendix D
517.D.10 Regulatory Review	Does the Application Include a Citation and Description of Applicable Louisiana and Federal Air Quality Requirements and Standards?	Х			Section 2.0

LAC 33:III.	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	NA	Location Within the Permit Application
517.D.11 Test Methods	Has a Description of or a Reference to Applicable Test Methods Used to Determine Compliance with Standards been Provided?	х			Section 2.0
517.D.12 Major Sources of TAPs	Does the Application include Information Regarding the Compliance History of Sources Owned or Operated by the Applicant (per LAC 33.III.5111)?	;		Х	
517.D.13 Major Sources of TAPs	Does the Application include a Demonstration to show that the Source Meets all Applicable MACT and Ambient Air Standard Requirements?			х	
517.D.14 PSD Sources Only	If Required by DEQ, Does the Application Include Information Regarding the Ambient Air Impact for Criteria Pollutants as Required for the Source Impact Analysis per LAC 33:III.509.K, L, and M?			х	
517 D.15 PSD Sources Only	If Required by DEQ, Does the Application Include a Detailed Ambient Air Analysis?			х	
517.D.16, 18	Has any Additional Information been Provided?	х			Figure 2
517.D.17 Fees	Has the Fee Code been Identified?	Х			Section 2.0
	Is the Applicable Fee Included with the Application?	х			
517.E.1 Additional Part 70 Requirements	Does the Certification Statement Include a Description of the Compliance Status of Each Emission Point in the Source with All Applicable Requirements?	х			Section 2.0
517E.2 Additional Part 70 Requirements	Does the Certification Statement Include a Statement that the Source will continue to Comply with All Applicable Requirements with which the Source is in Compliance?	Х			Section 2.0
517.E.3 Additional Part 70 Requirements	Does the Certification Statement Include a Statement that the Source will, on a timely basis, meet All Applicable Requirements that will Become Effective During the Permit Term?	х			Section 2.0
517.E.4 Additional Part 70 Requirements	Are there Applicable Requirements for which the Source is not in Compliance at the Time of Submittal?		Х		
:	Does the Application include a Compliance Plan Schedule?			Х	
	Does the Schedule Include Milestone Dates for which Significant Actions will occur?			х	
	Does the Schedule Include Submittal Dates for Certified Progress Reports?			х	
517.E.5 Additional Part 70 Requirements Acid Rain	Is this Source Covered by the Federal Acid Rain Program?		х		
	Are the Requirements of LAC 33.III.517.E 1-4 included in the Acid Rain Portion of the Compliance Plan?			Х	

LAC 33:IIL	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	NA	Location Within the Permit Application
517.E.6 Additional Part 70 Requirements	Have any Exemptions from any Applicable Requirements been Requested?	х			
	Is the List and explanations Provided?	Х			Section 2.0
517.E.7 Additional Part 70 Requirements	Does the Application Include a Request for a Permit Shield?		х		
	Does the Request List those Federally Applicable Requirements for which the Shield is Requested along with the Corresponding Draft Permit Terms and conditions which are Proposed to Maintain Compliance?			х	
517.E.8 Additional Part 70 Requirements	Does the Application Identify and Reasonably Anticipated Alternative Operating Scenarios?		Х		
·	Does the Application include Sufficient Information to Develop permit Terms and Conditions for Each Scenario, Including Source Process and Emissions Data?			х	·
517.F Confidentiality	Does the Application Include a Request for Non-Disclosure (Confidentiality)?		Х		
525.B. Minor Permit Modifications	Does the Application Include a Listing of New Requirements Resulting for the Change?			Х	
	Does the Application Include Certification by the Responsible Official that the Proposed Action Fits the Definition of a Minor Modification as per LAC 33:III.525.A.			х	
	Does the Certification also Request that Minor Modification Procedures be Used?			х	
·	Does the Application, for Part 70 Sources, Include the Owner's Suggested Draft Permit and Completed Forms for the Permitting Authority to Use to Notify Affected States?			х	
La. R.S. 30:2018 – PSD/NNSR only	Has a copy of the answers to the questions posed in the Environmental Assessment Statement (Section 26) been sent to the local governing authority at no cost to the local governing authority?			х	
	Has a copy of the answers to the questions posed in the Environmental Assessment Statement (Section 26) been sent to the designated public library at no cost to the designated public library?			х	

APPENDIX C ENVIRONMENTAL ASSESSMENT STATEMENT

5510A C-K Associates, LLC

Environmental Assessment Statement

1. Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible?

Yes. The LOOP LLC Port Complex currently operates under Permit No. 1560-00027-03 and is requesting permitting under a Louisiana Part 70 Operating Permit with this application. This application includes the addition of six crude oil storage tanks, to be permitted under the existing crude oil storage tank CAP, and the addition of one emergency diesel generator.

The potential and real adverse environmental effects of the proposed project have been avoided to the maximum extent possible. As discussed below, the facility is not anticipated to have any adverse environmental impacts.

The potential impacts from air emissions from the facility are minimal and will not cause any adverse impacts. All applicable federal and state regulations are complied within a timely manner and are utilized to minimize air emissions.

2. Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former?

Yes. The social and economic benefits of the LOOP Complex greatly outweigh its environmental impact. The facility is subject to strict requirements to control air emissions. Controls are in place to prevent any other environmental media from being affected by the facility's operations. The LOOP Complex is not anticipated to have an adverse impact on the environment. The facility has significant social and economic benefits, on a local and national scale, with minimal environmental impact.

3. Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits?

The proposed project is planned for the existing LOOP Complex. There are no alternative projects (i.e., technologies) which would offer more protection to the environment than the proposed project without unduly curtailing non-environmental benefits.

4. Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits?

No, it is an existing facility which is zoned for industrial use. Any other site would not offer more protection to the environment than the proposed project site without unduly curtailing non-environmental benefits.

5. Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing non-environmental benefits?

No, there are no mitigating measures which would offer more protection to the environment than the project as proposed without unduly curtailing non-environmental benefits. The facility meets all state and federally applicable requirements to minimize emissions of regulated air pollutants. Emissions associated with operations at the facility have been minimized.

APPENDIX D EMISSION CALCULATIONS

THEORETICAL OPERATING SCENARIO EMISSIONS SUMMARY Crude Oil Storage Tank CAP

Clovelly Dome, Lafourche Parish, Louislana LOOP LLC

310-ft diameter MMbbisyr bbis/day 25,000 9.1 20 Tank Throughput Tenk Throughput **Number of Tanks**

Emission Summary for Tank CAP

		Average
	Total Annual	Hourly
Pollutant	Emissions (tpy)	Emissions (Ibs/hr)
TOTAL VOCe	175.28	40.02
Benzene	1.03	0.234
Cumene (Isopropyl benzene)	0.02	0.00
Ethylbenzene	0.11	0.025
n-Hexane	1.07	0.245
Toluene	0.58	0.133
Xylenes	0.35	080'0

Emission Summary Per Tank

CHIRPHON SCHOOL FOR THE PARTY OF THE PARTY O								ı
			Withdrawal					
	Annual	Standing	Losses per	Annual			Total	Maximum
	Throughput	Losses per	MMbbi	Operating	Landing	Landing	Annual	Hourly
	Per Tank	tank	throughput	Emissions	Losses	Losses	Emissions	Emissions
Pollutant	(MMbbls)	(lb/yr)	(lb/MMbbl)	(lbs/yr)	(lbs/event)	Events/yr	(tpy)	(lbs/hr)
TOTAL VOCs	9.13	7,830	129.59	9,012.43	6,550.20	1.3	8.76	6,252.21
							. !	
Benzene				52.80	38.24		0.08	30.68
Cumene (Isopropyl benzene)				1.53	0.289		0.001	0.231
Ethylbenzene			•	7.78	2.54		0.01	2.03
n-Hexane				53.83	41.08		90'0	32.94
Totuene				34.09	18.62		0.03	14.93
Xylenes			:	25.43	7.42		0.02	5.95
TOTAL TAP				175.44	108.19		0.18	

NOTES:

Standing Losses (Rim Seal Losses + Roof Fitting Losses) and Withdrawal Losses from TANKS 4.0.9d Program Emission Report.
Annual Operating Emissions = Standing Losses (lb/yr) + Withdrawal Losses per MMbbl throughput (lb/yr) * Throughput (MMbbls).
Speciated Annual Operating Emissions = Total VOC Annual Operating Emissions * Mass Fraction calculated from TANKS Emission Report.
Maximum Hourly Emissions = Refilling Loss from Landing Loss calculations.

Tank Indentification and Physical Characteristics **Emissions Report - Detail Format TANKS 4.0.9d**

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Crude Oil Storage Tank Lafourche Parish User Identification:

State

External Floating Roof Tank Crude Oil Storage Tank LOOP LLC

Louisiana

Company: Type of Tank: Description:

Diameter (ft): Volume (gallons): Tank Dimensions

310.00 25,200,000.00 15.21

Paint Characteristics

Tumovers:

Light Rust White/White Good Internal Shell Condition: Shell Color/Shade: Shell Condition

Roof Characteristics

Pontoon Detail Fitting Category

Tank Construction and Rim-Seal System

Mechanical Shoe Rim-mounted Welded Secondary Seal Primary Seal: Construction:

Deck Fitting/Status

Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed Automatic Gauge Float Well/Bolted Cover, Gasketed Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask. Unslotted Guide-Pole Well/Gasketed Sliding Cover

Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.

Roof Leg (3-in. Diameter)/Adjustable, Pontoon Area, Gasketed Roof Leg (3-in. Diameter)/Adjustable, Center Area, Gasketed Roof Drain (3-in. Diameter)/90% Closed

38 151 6

- 98-

Quantity

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d

Emissions Report - Detail Format



Liquid Contents of Storage Tank

Crude Oil Storage Tank - External Floating Roof Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Daily Liquid Surf. Bulk Vapor Pressure (psia) Mol. Mass	ax. (deg F) Avg. Min. Max. Weight.	69.99 64.84 75.14 68.06 6.5139 N/A N/A 50.0000	0.0302 N/A N/A 120.1900	N/A 114.2300	N/A N/A 78.1100	N/A N/A 84.1600	N/A N/A 106.1700	N/A 86.1700		N/A N/A 92.1300	N/A N/A 49.4912	N/A N/A 106.1700
Bulk Vapor Pressure (psia) Mol.	ax. (deg F) Avg. Min. Max. Weight.	75.14 68.06 6.5139 N/A N/A	0.0302 N/A N/A 120.1900	N/A N/A 114.2300	N/A N/A 78.1100	N/A N/A 84.1600	N/A N/A 106.1700	N/A N/A 86.1700	N/A N/A 120.2000	N/A N/A 92.1300	N/A N/A 49.4912	N/A N/A 106.1700
Vapor Pressure (psia) Mol.	Avg. Min. Max. Weight.	6.5139 N/A N/A	0.0302 N/A N/A 120.1900	N/A N/A 114.2300	N/A N/A 78.1100	N/A N/A 84.1600	N/A N/A 106.1700	N/A N/A 86.1700	N/A N/A 120.2000	N/A N/A 92.1300	N/A N/A 49.4912	N/A N/A 106.1700
Vapor Mol.	Min. Max. Weight.	N/A N/A	N/A 120.1900	N/A N/A 114.2300	N/A N/A 78.1100	N/A N/A 84.1600	N/A N/A 106.1700	N/A N/A 86.1700	N/A N/A 120.2000	N/A N/A 92.1300	N/A N/A 49.4912	N/A N/A 106.1700
Vapor Mol.	Max. Weight.	N/A N/A 50.0000	N/A 120.1900	N/A 114.2300	N/A 78.1100	N/A 84.1600	N/A 106.1700	N/A 86.1700	N/A 120.2000	N/A 92.1300	N/A 49.4912	N/A 106.1700
Vapor Mol.	Weight.	4/A 50.0000	120.1900	114.2300	78.1100	84.1600	106.1700	86.1700	120.2000	92.1300	49,4912	106.1700
_		0.0000	0					_	_	_		_
Liquid	Fract		0.00	0.00	0.00	0.00	0.004	0.00	0.0010	0.010	0.94	0.0
			33	110	90	70	0	04	•	0	26	0.0140
Vapor	Fract.		0.0001	0.0005	0.0058	0.0070	0.0004	0.0063	0.0000	0.0028	0.9759	0.0011
Mol.	Weight	207.00	120.19	114.23	78.11	84.16	106.17	86.17	120.20	92.13	220.76	106.17
Basis for Vapor Pressure	Calculations	Option 4: RVP=8	Option 2: A=7.04383, B=1573.267, C=208.56	Option 2: A=6.8118, B=1257.84, C=220.74	Option 2: A=6.905, B=1211.033, C=220.79	Option 2: A=6.841, B=1201.53, C=222.65	Option 2: A=6.975, B=1424.255, C=213.21	Option 2: A=6.876, B=1171.17, C=224.41	Option 2: A=6.93666, B=1460.793, C=207.78	Option 2: A=6.954, B=1344.8, C=219.48		Option 2: A=7.009, B=1462.266, C=215.11
	Basis for Vapor Pressure	Basis for Vapor Pressure Calculations	Basis for Vapor Pressure Calculations Option 4: RVP=8	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2: A=7.04383, B=1573.267, C=208.56	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2. A=7. 04383, B=1573.267, C=208.56 Option 2. A=6.8118, B=1257.84, C=220.74	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2: A=7.04383, B=1573.267, C=208.56 Option 2: A=6.8118, B=1257.84, C=220.74 Option 2: A=6.905, B=1211.033, C=220.79	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2. A=7.04383, B=1573.267, C=208.56 Option 2. A=6.8118, B=1257.84, C=220.74 Option 2. A=6.805, B=12101.033, C=220.79 Option 2. A=6.841, B=1201.53, C=222.65	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2. A=7.04383, B=1573.267, C=208.56 Option 2. A=6.8118, B=1257.84, C=220.74 Option 2. A=6.914, B=1211.033, C=222.65 Option 2. A=6.915, B=1424.255, C=213.21	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2: A=7.04383, B=1573.267, C=208.56 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.915, B=14201.53, C=222.65 Option 2: A=6.915, B=1424.255, C=213.21 Option 2: A=6.976, B=1171.17, C=224.41	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2. A=7.04383, B=1573.267, C=208.56 Option 2. A=6.905, B=1211.033, C=220.79 Option 2. A=6.915, B=1201.53, C=222.65 Option 2. A=6.915, B=14201.55, C=224.41 Option 2. A=6.976, B=1171.17, C=224.41 Option 2. A=6.9366, B=1460.793, C=207.78	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2: A=7.04383, B=1573.267, C=208.56 Option 2: A=6.905, B=1211.033, C=220.74 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.905, B=1424.255, C=222.65 Option 2: A=6.975, B=1424.255, C=224.41 Option 2: A=6.93666, B=14171.17, C=224.41 Option 2: A=6.93666, B=1344.8, C=219.48	Basis for Vapor Pressure Calculations Option 4: RVP=8 Option 2: A=7.04383, B=1573.267, C=208.56 Option 2: A=6.8118, B=1257.84, C=220.74 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.914, B=1201.53, C=222.65 Option 2: A=6.975, B=1424.255, C=213.21 Option 2: A=6.975, B=1471.17, C=224.41 Option 2: A=6.93666, B=1460.793, C=207.78 Option 2: A=6.9554, B=1344.8, C=219.48

12/2/2010

18.5219 8.1033 214.7406 3,613.9909 1.6736 170.2519 291.8921 47.7625

0.00 0.00 0.94 2.20 0.97 0.65 0.13

Losses(lb)

Ε



Emissions Report - Detail Format Detail Calculations (AP-42) **TANKS 4.0.9d**

Crude Oil Storage Tank - External Floating Roof Tank Lafourche Parish, Louisiana

Annual Emission Calcaulations				
Rim Seal Losses (Ib): Seal Factor A (Ib-mole/ft-yr): Seal Factor B (Ib-mole/ft-yr): Average Wind Speed (mph). Seal-related Wind Speed Exponent: Value of Vapor Pressure Function:	3,463,0095 0,6000 0,4000 8,1500 1,0000 0,1447			
Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Tank Diameter (ft): Vapor Molecular Weight (Ib/Ib-mole): Product Factor.	6.5139 310.0000 50.0000 0.4000			
Withdrawal Losses (Ib): Annual Net Throughput (galyyr.): Shell Clingage Factor (bbl/1000 sqft): Average Organic Liquid Density (Ib/gal): Tank Diameter (ft):	1,182,4764 383,250,000,0000 0,0060 7,1000 310,0000			
Roof Fitting Losses (lb): Value of Vapor Pressure Function: Value of Vapor Neledular (Veight (lb/lb-mole): Product Factor: Tot. Roof Fitting Loss Fact (lb-mole/yr): Average Wind Speed (mph):	4,366,9368 0.1447 50.0000 0.4000 1,508,9409 8,1500			
Total Losses (lb):	9,012.4227			
Roof Fitting/Status		Quantity	KFa(lb-mole/yr)	Roof Fitting Loss Factors KFb(lb-mole/(yr mph^n))
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed Automatic Gauge Float Well/Bolted Cover, Gasketed Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask. Unsiloted Guide-Pole Well/Gasketed Sliding Cover Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask Roof Leg (3-in. Diameter)/Adjustable. Pontoon Area, Gasketed Roof Leg (3-in. Diameter)/Adjustable. Center Area, Gasketed Boof Train (3-in. Diameter)/Adjustable.	led end. cctuation, Gask. mech. Actuation, Gask. as, Gasketed , Gasketed	4 + 1 5 2 2 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	2.80 2.80 2.50 2.50 2.50 0.50 1.30	0.00 1.20 0.00 0.00 0.00 0.00 0.00

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Crude Oil Storage Tank - External Floating Roof Tank Lafourche Parish, Louisiana

			Losses(lbs)		
Components	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Crude Oil RVP 8	3,463.01	1,182.48	4,366.94	0:00	9,012.42
Hexane (-n)	21.72	4.73	27.38	0.00	53.83
2,2,4-Trimethylpentane (isooctane)	1.74	1.18	2 19	0.00	5.11
Benzene	20.22	7.09	25.49	0.00	52.80
1,2,4-Trimethylbenzene	0.22	3.90	0.28	0.00	4.40
Cyclohexane	24.31	8.28	30.66	0.00	63.25
Ethylbenzene	1.34	4.73	1.69	0.00	7.76
Isopropyl benzene	0.15	1.18	0.19	0.00	1.53
Xylene (-m)	3.92	16.55	4.95	00.0	25.43
Toluene	9.85	11.82	12.42	0.00	34.09
Unidentified Components	3,379.54	1,123.00	4,261.69	0.00	8,764.23

STORAGE TANK LANDING LOSSES

LOOP LLC

Assumptions:

Loss from Emptying and Refilling EFR, Partial Liquid Heal Tanks

Description	Quantity Unit	Basis
n _d = number of days roof is landed	l day	Minimum Basis for Reference Methodology
Mv = Vapor Motecular Weight	50.00 lb/tb-mole	TANKS 4.0.9d Default
RVP = Reid Vapor Pressure	8.00 psta	TANKS 4.0.9d Default
W _L = Liquid Density	7.10 lb/gal	TANKS 4.0.9d Default
H _L = Height of Liquid Heet	0.50 ft	Conservative Estimate
Pa = Atmospheric Pressure	14.70 psia	Standard Atmospheric Pressure
R = Ideal Gas Constant	10.73 psia-ft³ per lb-mole°R	

Site Specific Data:

Description	Quantity Unit	Basis
T _{max} = Daily Maximum Ambient Temperature	537.70 ¹⁰ R, Annual Average for New Orleans, Louisiana	7.1, Table 7.1-7
T _{res} = Daily Minimum Ambient Temperature	518.70 ^o R, Annual Average for New Orleans, Louisiana	7.1, Table 7.1-7
a = Tank Paint Solar Absorbance	0.17 White Paint Color	7.1, Table 7.1-6
1 ≈ Insolation	1437 Btu/ft²d, Annual Average New Orleans, Louisiana	7.1, Table 7.1-7

Glven:

y Unit	310.00 ft	3.00 ft
Description	D = Tank Diameter	Hr = Roof Leg Setting

Other Calculated Parameters:

Description	Quantity Unit, [Formula]	Basis
A = Constant in Vapor Pressure Equation	10.81 dimensionless, [A = 12.82-0.9672*In(RVP)]	7.1, Figure 7.1-16
B = Constant in Vapor Pressure Equation	4732.40 °R, [B = 7261-1216*In(RVP)]	7.1, Figure 7.1-16
P= True Vapor Pressure	6.57 psia, [P = EXP(A-(B/T _{LV}))]	7.1, Equation 1-12a
P*= Vapor Pressure Function	0.15 dimensionless, [P/Pa/(1+(1-(P/Pa)) ^{0.5}) ²]	Equation 12, API Document
Teve = Daily Average Ambient Temperature	528.20 PR, [Tevs=(Tmax+Tmin)/2]	7.1, Equation 1-14
deltaT _v = Daily Vapor Temperature Range	20.52 PR, [0.72(T _{max} - T _{mb}) + 0.028al]	Equation 7, API Document
T _{LA} = Daily Average Liquid Surface Temperature	530.14 PR, [0.44T _{evg} + 0.56T _B + 0.0079al]	7.1, Equation 1-13
T _B = Liquid Bulk Temperature	528.22 °R, [T _B =T _{6vy} +6*a-1]	7.1, Equation 1-15
h, = Height of Vapor Space	2.50 ft. [height of deck above tank bottom - height of liquid heel]	Equation 25, API Document
K ₆ = Standing Idle Saturation Factor	0.53 dimensionless, [1/1 + 0.053(Ph,)]	Equation 8, API Document
K _E = Vapor Space Expansion Factor	0.18 dimensionless, [deltaT√T _{evg} (1+0.5BP/T _{evg} (Pa-P)]	Equation 6, APt Document
A _f = Floor Area	$75,477$ $ \mathbf{R}^2, [A_t = \pi^*(D/2)^2]$	
V _v ≃ Vapor Volume	188.692 R ² , [V _V = A ₁ *h ₂]	7.1, Equation 2-32
C _{ef} = Filling Saturation Correction Factor	0.96 dimensionless	Equation 23, API document
STYCH TIDE V PTE CAICS.XIS/LANGING LOSSES	Paga 1 of 2	C-R Associates, LLC

STORAGE TANK LANDING LOSSES

LOOP LLC

LANDING LOSS EMISSIONS PER EVENT.

	Quantity Unit, Formula	Basis
S = Filling Saturation Factor	0.5 dimensionless	Partial Liquid Heel
$L_{\rm S} = $ Standing idle Loss	1,298 lb, $[L_8 = 0.57 n_d D(P^*) M_V]$	Equation 14 & 10, API Document
Le = Refilling Loss	6,282 b, L _F = (PV _v /RT _{wp})M _v (C _w S)]	Equation 21, API Document
$L_T = Total Roof Landing and Refilling Loss$	6,650 lb. [L _T = L ₃ +L _F]	Equation 1, API Document

		Vapor Mass		
SPECIATION (TANKS 4.09.d Crude Oll RVP 8)		Fraction	EMISSIONS (Ib)	
Benzene		0.0058	38.24	
Cumene (Isopropyl benzene)			0.289	
Ethylbenzene			2.54	
n-Hexane			41.08	
Toluene			18.62	
Xylenes		0.0011	7.42	
	TOTAL TAP		108.19	
1so-octane			3.29	
1.2.4-Trimethylbenzene			0.415	
Cyclohexane			45.99	
Unspeciated VOCs			6392.32	
-	TOTAL VOC	1.0000	6560.20	

REFERENCES: AP-42 Section 7.1, Organic Liquid Storage Tanks, November 2006 Evaporative Loss from Storage Tank Floating Roof Landings , Technical Report 2567, American Petroleum Institute, April 2005

Potential to Emit

Lafourche Parish, Louisiana **LOOP LLC Port Complex**

Source ID:

1-10 520 HP Emergency Generator

Given:

Brake Horsepower

520 bhp 500 hrs

Operation Time

Calculation Methodology:

Average Hourly Rate [ib/hr] = Horsepower [hp] x Average Emission Factor [g/hp-hr] / Conversion Factor [454 g/lb] Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

	Vendor				
	Emission	Average	Max	Annual	
	Factor ⁽²⁾	Hourly Rate	Hourly Rate	Emission Rate	<u>၀</u>
Pollutant	[g/hp-hr]	[lb/hr]	[lp/hr]	[tpy]	Spec
PM ₁₀	0.56	0.64	0.64	0.16	Acet
SO ₂ ⁽¹⁾	0.00205	0.00	0.002	0.001	Benz
×ON	4.35	4.98	4.98	1.25	Form
00	0.54	0.62	0.62	0.15	Tolu
Total VOC	90.0	0.07	0.07	0.02	Xyler

				Annual
	Emission	Average	Max	Emission
VOC TAP	Factor ⁽³⁾	Hourly Rate	Hourly Rate	Rate
Speciation ⁽³⁾	[lb/hp-hr]	[ib/hr]	[lb/hr]	[tpy]
Acetaldehyde	5.37E-06	0.003	0.003	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.004	0.004	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

(1) Emission factor based on EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines.

Emission factor based on Cummins Exhaust Data, full standby emission rates.
 TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Potential to Emit

Lafourche Parish, Louisiana LOOP LLC Port Complex

> **EQT003** Source ID:

1-78 Crude Relief Tank

Given:

Crude Oil RVP 5 External Floating Roof 23,100,000 gal/yr **Throughput Fank Type** Contents Diameter

<u>Calculation Methodology:</u> EPA *TANKS 4.0.9d* Program Software

Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr] Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

	TANKS			Annual
	Emission	Average	Max	Emission
	Report	Hourly Rate	Hourly Rate	Rate
Pollutant	[lbs/yr]	[lb/hr]	[lb/hr]	[tpy]
Total VOC	3306.16	0.38	0.38	1.65
Benzene	34.96	0.004	0.004	0.017
Cumene (Isopropyl benzene)	0.47	0.0001	0.0001	0.0002
Ethylbenzene	3.12	0.0004	0.0004	0.002
n-Hexane	37.01	0.004	0.004	0.019
Toluene	18.59	0.002	0.002	600.0
Xylenes	9.62	0.001	0.001	0.005

Emissions Report - Detail Format TANKS 4.0.9d

Tank Indentification and Physical Characteristics

1-78 I afourthe Darieh	Louisiana	External Floating Roof Tank Crude Relief Tank
Identification User Identification:	State:	Type of Tank: Description:

Volume (gallons): Turnovers:		2,310,000.00
Paint Characteristics Internal Shell Condition: Shell Color/Shade: Shell Condition	Light Rust White/White Good	

	Pontoon	Typical
Roof Characteristics	Type:	Fitting Category

Dialogo Ipac	Welded	Mechanical Shoe	Rim-mounted
ANK CONSTITUCTION AND ANTI-SEAL SYSTEM	Construction:	Primary Seal:	Secondary Seal

Deck Fitting/Status	

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed Automatic Gauge Float Well/Unbolted Cover, Ungasketed Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask. Unslotted Guide-Pote Well/Ungasketed Sliding Cover Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask. Roof Leg (3-in. Diameter)/Adjustable, Pontoon Area, Ungasketed Roof Leg (3-in. Diameter)/Adjustable, Center Area, Ungasketed Rim Vent (6-in. Diameter)/Adjustable, Caster	++++++++++++++++++++++++++++++++++++++

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

Emissions Report - Detail Format TANKS 4.0.9d

12/3/2010



Liquid Contents of Storage Tank

1-78 - External Floating Roof Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

	67, C=208,56 , C=220.74 , C=220.79 C=223.65 , C=213.21 , C=24.41 93, C=207.78
Basis for Vapor Pressure Calculations	Option 4: RVP=5 Option 2: A=7.04383, B=1573.267, C=208.56 Option 2: A=6.8118, B=1257.84, C=220.74 Option 2: A=6.8118, B=1211.033, C=220.79 Option 2: A=6.804, B=1211.033, C=220.79 Option 2: A=6.804, B=121.033, C=220.78 Option 2: A=6.876, B=1424.255, C=213.21 Option 2: A=6.9566, B=1460.793, C=207.78 Option 2: A=6.954, B=1344.8, C=219.48 Option 2: A=7.009, B=1462.266, C=215.11
Mol. Weight	207.00 120.19 114.23 78.11 84.16 106.17 86.17 120.20 92.13 220.76
Vapor Mass Fract.	0.0001 0.0009 0.0109 0.0131 0.0007 0.0117 0.0063 0.0063
Liquid Mass Fract.	0.0033 0.0010 0.0060 0.0070 0.0040 0.0010 0.0100 0.0140
Vapor Mol. Weight.	50.0000 114.2300 78.1100 84.1600 106.1700 92.1300 49.0381 106.1700
ssia) Max.	NA NA NA NA NA NA NA NA NA NA NA NA NA N
Vapor Pressure (psia) /g. Min. Mi	N N N N N N N N N N N N N N N N N N N
Vapor P Avg.	3.4885 0.0302 0.7891 1.5308 1.5780 0.1524 2.4667 0.0693 0.4474 3.8146
Liquid Bulk Temp (deg F)	90 89
f. g F) Max.	41.92
Daily Liquid Surf. Temperature (deg F) Min. M	64.84
Da Tem Avg.	69.99
Month	II V
Mixture/Component	Crude oil (RVP 5) 1,2.4-Trimethy/benzene 2,2,4-Trimethy/pentane (isooctane) Benzene Cyclohexane Ethylbenzene Haxane (-n) Hosoncyl benzene Toluene Unidentified Components Xylene (-m)



Emissions Report - Detail Format Detail Calculations (AP-42) **TANKS 4.0.9d**

1-78 - External Floating Roof Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Note of the content			
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mph): ed Exponent: re Function: y Average Liquid e (psia): 1((b/lb-mole): d Density (b/gal): 1((b/lb-mole): a - 2,55 bt ((b/lb-mole): 1,90 (mph): 3,30			
ed Exponent: re Function: (
re Function: y Average Liquid (e (psia): ht (lb/lb-mole): 23,100,00 (bb/1000 sqft): d Density (lb(gal): ht (lb/lb-mole): a fact (lb-mole/yr): (mph):			
y Average Liquid ((psia):			
nt (lb/lb-mole): 1 (gallyr.): 4 Density (lb/gal): 1 (b/l-mole): 1 (lb/lb-mole): 1 (mph):			
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rressure rundon. r Weight (Ib/Ib-mole)/r): speed (mph):			
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J Loss Fact (Ib-mole/yr): Speed (mph):			
Speed (mph):			
A AND LOUIS AND AN AND LOUIS CONTRACTOR OF THE PARTY OF T			
		R	Roof Fitting Loss Factors
Roof Fitting/Status	Quantity	KFa(lb-mole/yr)	KFb(lb-mole/(yr mpn~n))
		1.60	0.00
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed		14.00	5.40
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	,	14.00	0.10
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	<i>-</i> 1	94.00	150.00
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	- 1	01.00	0.00

Roof Fitting/Status	Quantity	F KFa(lb-mole/yr)	Roof Fitting Loss Factors KFb(lb-mole/(yr mph^n))	ε	Losses(lb)
Access Hatch (24-in. Diam.)/Bolited Cover, Gasketed Automatic Gauge Float Well/Unbolted Cover, Ungasketed Automatic Gauge Float Well/Unbolted Cover, Ungasketed Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask. Unslotted Guide-Pole Well/Ungasketed Sliding Cover Gauge-Harch/Sample Well (Ehr. Diam.)/Weighted Mech. Actuation, Gask. Roof Leg (3-in. Diameter)/Adjustable, Pontoon Area, Ungasketed Roof Leg (3-in. Diameter)/Meighted Mech. Actuation, Gask.		1.60 14.00 6.20 31.00 0.47 0.82	0.00 5.40 1.20 150.00 0.02 0.37 0.53	0.00 1.10 0.94 1.40 0.97 0.91 1.00	2,1561 68,2785 16,6655 2,356,0139 0,7793 87,1612 32,2629 1,7256

12/3/2010

TANKS 4.0.9d Emissions Report - Detail Format Individual Tank Emission Totals

Emissions Report for: Annual

1-78 - External Floating Roof Tank Lafourche Parish, Louisiana

			Losses(lbs)		
Components	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Crude oil (RVP 5)	520.17	220.94	2,565.04	0.00	3,306.16
Hexane (-n)	60.9	0.88	30.03	0.00	37.01
2,2,4-Trimethylpentane (isooctane)	0.49	0.22	2.40	0.00	3.11
Benzene	29:5	1.33	27.96	0.00	34.96
1,2,4-Trimethylbenzene	90:00	0.73	0:30	0.00	1.09
Cyclohexane	6.82	1.55	33.63	0.00	41.99
Ethylbenzene	0.38	0.88	1.86	0.00	3.12
Isopropyl benzene	0.04	0.22	0.21	0.00	0.47
Xylene (-m)	1.10	3.09	5.43	0.00	9.62
Toluene	2.76	2.21	13.62	0.00	18.59
Unidentified Components	496.76	209.83	2,449.61	0.00	3,156.20

12/3/2010

TANKS 4.0 Report

C-K Associates, LLC

Potential to Emit

LOOP LLC Port Complex Lafourche Parish, Louisiana

Source ID: EQT004

5-78 Small Boat Harbor Slop Oil Tank

Given:

Contents Wash water, lube oil, small quantities of diesel
Tank Type Vertical Fixed Roof

Volume Throughput

79,315 gal 84,000 gal/yr

Calculation Methodology:

EPA TANKS 4.0.9d Program Software

Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr] Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

	TANKS			Annual
	Emission	Average	Max	Emission
	Report	Hourly Rate	Hourly Rate	Rate
Pollutant	[lbs/yr]	[lb/hr]	[lb/hr]	[tpy]
Total VOC	19.51	0.002	0.002	0.01

TANKS 4.0.9d Emissions Report - Detail Format Tank Indentification and Physical Characteristics

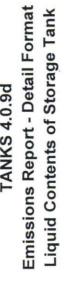
5-78 Lafourche Parish Louisiana LOOP LLC Vertical Fixed Roof Tank Small Boat Harbor Slop Oil Tank	16.00 30.00 15.00 8.00 79,315.28 1.06 84,000.00	White/White Good White/White Good	0.00 0.06
5-78 Lafourche F Louisiana LOOP LLC Vertical Fix Small Boat	z	White/White Good White/White Good	Cons
identification User Identification: City: State: Company: Type of Tank: Description:	Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gal/yr): Is Tank Heated (y/n):	Paint Characteristics Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition:	Roof Characteristics Type: Height (ft) Slope (ft/ft) (Cone Roof)

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

0.00

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)





5-78 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Basis for Vapor Pressure	Calculations	Option 1: VP60 = .0065 VP70 = .009
Mol.	Weight	188.00
Vapor	Fract.	
Liquid Mass	Fract.	And in case (1944) (Station of all 1944 and a state (1944))
Vapor Mol.	Weight.	130.0000
psia)	Max.	0.0105
/apor Pressure (psia)	Min.	0.0077
Vapor	Avg.	0.0090
Liquid Bulk Temp	(deg F)	90'89
urf.	Max.	64.84 75.14
Daily Liquid Surf. Temperature (deg F.	Min.	64.84
Dai	Avg.	66.69
	Month	All
	Mixture/Component	Distillate fuel oil no. 2

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Emissions Report - Detail Format Detail Calculations (AP-42) **TANKS 4.0.9d**

5-78 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

Annual Emission Calcaulations

enterior de maria de la companya de la companya de la companya de la companya de la companya de la companya de	
Standing Losses (lb):	17.1754 5 875 7600
Vapor Space Volume (cu. it). Vapor Density (lb/cu.ft):	0.0002
Vapor Space Expansion Factor: Vented Vapor Saturation Factor:	0.0391
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft): Tank Diameter (ft):	30.0000
Vapor Space Outage (ft):	8.3125
Average Liquid Height (ft): Roof Outabe (ft):	8.0000
Roof Outland (Cone Roof)	
Roof Outage (ft):	0.3125
Roof Height (ft): Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	. 15.0000
Vapor Density	0 0000
Vapor Density (Ib/Ib-mole): Vapor Molecular Weight (Ib/Ib-mole):	130.0000
Vapor Pressure at Daily Average Liquid	06000
Daily Avg. Liquid Surface Temp. (deg. R):	529.6574
Daily Average Ambient Temp. (deg. F):	68.0375
(psia cuft / (lb-mol-deg R)):	10,731
Liquid Bulk Temperature (deg. R):	527.7275
Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof):	0.1700
Daily Total Solar Insulation	1 443 525E
Factor (Btu/sqrt day):	1,449.3230
Vapor Space Expansion Factor	70000
Vapor Space Expansion Factor:	20.5932
Daily Vapor Pressure Range (psia):	0.0028
Breather Vent Press, Setting Range(psia): Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0090
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0077
Vapor Pressure at Daily Maximum Liquid	0.0105
Daily Avg. Liquid Surface Temp. (deg R):	529.6574
Daily Min. Liquid Surface Temp. (deg R):	524.5091
Daily Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg. R):	19.0583
Vicabal Vicaba Columbia Earlor	
Vented Vapor Saturation Factor:	0.9961
Vapor Pressure at Daily Average Liquid:	0600 0
oulided i amparatura (para).	2000



12/3/2010

file://C:\Program Files\Tanks409d\summarydisplay.htm

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8.3125	2.3392 130,0000 84,000,0000 1,0591 1,0501 79,315,2772 15,0000 30,0000 1,0000	19.5145
Vapor Space Outage (ft):	Working Losses (Ib): Vapor Molecular Weight (Ib/Ib-mole): Vapor Molecular Weight (Ib/Ib-mole): Vapor Pressure at Daily Average Liquid Sufface Temperature (psia): Annual Nat Throughput (gal/yr.): Annual Turnovers: Turnover Factor: Turnover Factor: Turnover Factor: Turnover Factor: Turnover Factor: Turnover Factor: Tank Diameter (ft): Working Loss Product Factor:	Total Losses (lb):

TANKS 4.0 Report

TANKS 4.0.9d Emissions Report - Detail Format Individual Tank Emission Totals

Emissions Report for: Annual

5-78 - Vertical Fixed Roof Tank Lafourche Parish, Louislana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distiltate fuel oil no. 2	2.34	17.18	19.51

Potential to Emit

Lafourche Parish, Louisiana LOOP LLC Port Complex

> EQT006 Source ID:

11-78 Fourchon Booster Station No. 2 Fuel Tank No.1

Given:

Vertical Fixed Roof Diesel Throughput Tank Type Contents Volume

1,175,041 gal 23,000,000 gal/yr

Calculation Methodology:

EPA TANKS 4.0.9d Program Software

Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]

Max Hourly Rate [ib/hr] = Average Hourly Rate [ib/hr] Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

i		TANKS Emission		Max	Emission
		Report	Hourly Rate	Hourly Rate	Rate
Pollutant		[lbs/yr]	[lb/hr]	[lb/hr]	[tpy]
Total VOC		916.45	0.10	0.10	0.46
	Benzene	1.80	0.0002	0.0002	0.001
	Ethylbenzene	2.92	0.0003	0.0003	0.001
	n-Hexane	0.36	0.00004	0.00004	0.0002
	Toluene	21.09	0.002	0.002	0.011
	Xylenes	7,	900.0	0.006	0.027

TANKS 4.0.9d

TANKS 4.0 Report

Tank Indentification and Physical Characteristics **Emissions Report - Detail Format**

11-78	Lafourche Parish	Louisiana	LOOP LLC	Vertical Fixed Roof Tank	Fourchon Booster Station No. 2 Fuel Tank No.1
Identification User Identification:	City:	State:	Company:	Type of Tank:	Description:

22.00	100.00	20.00	11.00	1,175,041.14	19.57	23,000,000.00	
							z
Tank Dimensions Shell Height (ft):	Diameter (ft):	Liquid Height (ft):	Ava. Liauid Height (ft):	Volume (gallons):	Tumovers:	Net Throughput(gal/yr):	Is Tank Heated (y/n):

23,000,000.00		0.00 0.00	0.00
z	White/White Good White/White Good	Cone	
volume (gallons): Tumovers: Net Throughput(gallyr): Is Tank Heated (y/n):	Paint Characteristics Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition:	Roof Characteristics Type: Height (ft) Slope (ft/ft) (Cone Roof)	Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

Meterological Data used in Emissions Calculations; New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

12/3/2010



TANKS 4.0.9d Emissions Report - Detail Format Liquid Contents of Storage Tank

11-78 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

Liquid Surf. Bulk Vapor Liquid Vapor Liquid Vapor Daily Liquid Surf. Bulk Vapor Pressure (Bulk Vapor Pressure Mol. Mass Mass Mol. Basis for Vapor Pressure Month Avg. Min. Max. (deg F) Avg. Min. Max. Weight. Fract. Weight Calculations	All 69.99 64,84 75,14 68.06 0,00077 0,0105 130,0000 1,0100 0,0485 120,19 Option 1: VP60 = ,0065 VP70 = ,009 1,033
Mixture/Component Month	1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene Benzene Ethylbenzene Hexane (-n) Toluene

12/3/2010

TANKS 4.0.9d Emissions Report - Detail Format Detail Calculations (AP-42)

11-78 - Vertical Fixed Roof Tank Lafourche Parish, Louislana

Annual Emission Calcautations	
Standing Losses (b): Vapor Space Volume (cu ft): Vapor Density (blou ft): Vapor Space Expansion Factor: Vented Vapor Saturation Factor:	275.9623 94,575.0287 0.0002 0.0391 0.9943
Tank Vapor Spece Volume: Vapor Space Volume (cu ft): Tank Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft): Average Liquid Height (ft): Roof Outage (ft):	94,575,0287 100,0000 120,047 22,0000 11,0000 1,0417
Roof Outage (Cone Roof) Roof Outage (R): Roof Height (R): Roof Singe (IM): Shell Redus (R):	1,0417 0,0000 0,0625 50,0000
Vapor Density Vapor Density (Arbu R): Vapor Density (Arbu R): Vapor Ablecular Vegith (IbrB-mole): Vapor Pressure at Daily Average Liquid Suffect Temperature (1918): Daily Avg. Liquid Surfaces Temp. (deg. R): Daily Avg. Liquid Surfaces Temp. (deg. F):	0 0002 130,0000 0 0090 529 6574 66,0375
Ideal Gas Constant R (pels cart / (b-mol-deg R)) Liquid Bulk Temperature (deg. R): Tenk Paint Solar Absorptance (Shell): Tenk Paint Solar Absorptance (Roof): Daily Total Solar Insulation Factor (Blu/soff day).	10.731 527.7275 0.1700 0.1700 1,443.5256
Vapor Space Expension Factor Vapor Space Expension Factor Daily Vapor Temperature Range (deg. R): Daily Vapor Pressure Range (pale): Breather Verit Press. Serting Range(psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0391 20.5932 0.0028 0.0000 0.0090
Vapor Pressure at Daily Minimum Liquid Sufface Temperature (pisis): Vapor Pressure at Daily Maximum Liquid Sufface Temperature (pisis): Daily Avg. Liquid Surface Temp (deg R): Daily Min. Liquid Surface Temp (deg R): Daily Max. Liquid Surface Temp (deg R): Daily Max. Liquid Surface Temp (deg R):	0 0077 0 0105 529 6574 524 5091 534 8057 19 0583
Verted Vapor Saturation Factor Verted Vapor Saturation Factor: Vapor Pressure at Daily Average Liquid: Surface Temperature (pela):	0.8943

12/3/2010

i
640.4892
130.0000
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19.5738
1.0000
1,175,041.1430
20.0000
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1.0000

TANKS 4.0 Report

TANKS 4.0.9d Emissions Report - Detail Format Individual Tank Emission Totals

Emissions Report for: Annual

11-78 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	640.49	275.96	916.45
Hexane (-n)	0.25	0.11	0.36
Benzene	1.26	0.54	1.80
Toluene	14.74	6.35	21.09
Unidentified Components	553.09	238.31	791.40
Ethylbenzene	2.04	0.88	2.92
Xylene (-m)	38.02	16.38	54.40
1,2,4-Trimethylbenzene	31.09	13.39	44.48
2,4-11momily-2,12	11		

Potential to Emit

LOOP LLC Port Complex Lafourche Parish, Louisiana

Source ID:

EQT007

12-78 Salt Dome Cavities (9)/Piping & Brine Storage Reservoir

Description of Operations

Brine displacement is used for transporting crude into and out of the storage caverns. The system operates in three modes. To be conservative, this calculation is based on the mode of operation that results in the highest potential for air emissions (See Mode #2 in System Operations on attached process description). As oil is received, it is injected into a cavern and the displaced brine is used to displace oil from another cavern for delivery. hydrocarbons, volatilization of hydrocarbons to air may occur from the reservoir. The reservoir has surface area of approximately 225 acres and If the receiving rate is greater than the delivery rate, excess brine goes to the storage reservoir. Because the brine can become entrained with an average depth of 10 ft. More detailed information regarding the operations of the caverns is attached

iven:

Mode 2 Brine Hydrocarbon Concentration at the Cavern 0.0
Brine Design Flowrate

0.062 ppm 600 MMbbls/yr

Calculation Methodology:

Average Hourly Rate [lb/hr] = Water9 Output [MMg/yr] / Conversion Factor [8760 hr/yr] x Conversion Factor [2204.623 lb/MMg] Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

VOC TAP Speciation Emission Rate = Total VOC Emission Rate [lb/hr or tpy] x Liquid Weight Fraction Annual Emission Rate [tpy] = Water9 Output [MMg/yr] x Conversion Factor [1.102 ton/MMg]

Reference:

EPA Water9 Program Software

Emission Calculation:

	Water9	Liquid	Average	Max	Annual
	Emissions	Weight	Hourly Rate	Hourly Rate	Emission Rate
Pollutant	[MMg/yr]	Fraction	[lb/hr]	[lb/hr]	[tpy]
Total VOC	1.580	1.00	0.40	0.40	1.74
Benzene		900'0	0.002	0.002	0.010
Cumene (Isopropyl benzene)		0.001	0.0004	0.0004	0.002
Ethylbenzene	•	0.00	0.002	0.002	0.007
n-Hexane		0.004	0.002	0.002	0.007
Toluene	•	0.010	0.004	0.004	0.017
Xvienes	V.	0.014	9000	900'0	0.024

Notes:

VOC TAP Speciation from EPA TANKS 4.0.9d Program Software for Crude Oil RVP 8

WATER Generic Organic material BENZENE ETHYLBENZENE	RATE (9/s) 3.86E-14 2.89E-02 3.16E-04	Fraction Air .47163 .82591	RATE 1 (1b/day) 5.5081 .06017	oading Ppmw 1000000. .02
HEXANE (-n) TOLUENE XYLENE	4E-0 6E-0 3E-0 7E-0	.76642 .76642 .78779 .79164	.03699 .03722 .09565 .13456	

95806375.88 Mg/yr in waste 3038. L/s		· 3	TOTAL LOADING TOTAL WATER FLOW	OTAL
95806375.88 Mg/yr in waste		,	LOADING	IAL
.97 Mg/yr air emissions	TOTAL EMISSIONS ALL COMPOUNDS	ALL	EMISSIONS	IAL
3.09E-02 g/s air emissions	TOTAL EMISSIONS ALL COMPOUNDS	ALL	EMISSIONS	TAL

WASTEWATER TREATMENT SUMMARY II 03-13-2007 12:25:15

Project C:\Documents and Settings\vtn\My Documents\VINH-NGUYEN\Models\WATER9\LOOP Cavern Simulation 02

COMPOUND	RATE	Fraction	RATE 1	loading
	(s/b)	Air	(1b/day)	wwdd
WATER	3.86E-14	•		1000000.
Generic Organic material	4.79E-02	.88072	9.1111	90.
BENZENE	3.38E-04	.99607	.06427	
ETHYLBENZENE	2.23E-04	86	.04244	a
HEXANE (-n)	2.24E-04	94	.04256	•
TOLUENE	5.60E-04	.99184	.10666	.001
XYLENE	7.83E-04	89	4	.001

5.00E-02 q/s air emissions	1.58 Mg/vr air emissions	28741912.37 Mg/vr in waste	911.4 L/s
TOTAL EMISSIONS ALL COMPOUNDS	COMPOUNDS		
ALL	ALL		
EMISSIONS ALL COMPOUN	TOTAL EMISSIONS ALL COMPOUNDS	TOTAL LOADING	TOTAL WATER FLOW
TOTAL	TOTAL	TOTAL	TOTAL

LOOP LLC Port Complex Salt Dome Caverns

Loading Operations:

LOOP LLC Port Complex includes 9 salt dome caverns for storage of pipeline crude oil. Crude oil is piped in from a deepwater port via a 48-in pipeline. LOOP transports domestic and foreign crude out of the caverns through five outgoing pipelines. The maximum cumulative delivery rate is approximately 90,000 barrels per hour, but typical delivery rates are in the 70,000 barrel per hour range. Tankers unload directly into the 48-inch pipeline at a platform in the Gulf of Mexico. The maximum design unloading rate from a tanker is 100,000 barrels per hour. The total capacity of the caverns is 43 million barrels; one cavern is not in service and has a capacity of 3 million barrels. The average size of the caverns is 1,000 ft deep and 235 ft in diameter and the tops of the caverns lie 1,500 ft underground. The design throughput for the caverns is 1.4 million barrels per day.

Brine Displacement

A brine displacement mechanism is used for transporting the crude oil into and out of the storage caverns. For certain modes of operation, the incoming crude oil displaces brine from a cavern to the brine reservoir. When the stored crude oil is delivered, the brine is pumped from the reservoir back into the cavern to displace the crude. Brine flows in and out of the cavern through four 22-inch pipes. The brine pipes extend 1000 ft below the top of the cavern. The crude oil flows through 22-inch by 30-inch annuli surrounding the brine pipes and through 30-inch pipes at the centers of the caverns. The crude pipes terminate at the top of the cavern.

The brine reservoir is an open basin located above ground with a 25 million barrel capacity. It has a surface area of about 225 acres and an average depth of about 10 feet. The pond is lined with clay to prevent brine seepage into the ground.

System Operations

There are three basic modes of operation for receiving/delivering crude oils:

- As oil is received, it is injected into a cavern and an equal volume of brine is displaced to the storage reservoir. Delivery is made by pumping this same brine back into the storage cavern and displacing the oil being delivered.
- 2) As oil is received, it is injected into a cavern and the displaced brine is used to displace oil from another cavern for delivery. If the receiving rate is greater than the delivery rate, the excess brine goes to the storage reservoir. Conversely, when the rate of delivery exceeds the receiving rate, the excess brine is made up from the reservoir. In typical operations, the rates are nearly in balance and little or no brine is transported to or from the reservoir. This balanced Mode 2 operations is termed the "floating-cavern" mode.
- 3) Mode 3 As oil is received it is sent directly to the delivery pipelines, thereby passing entirely cavern storage and the need to move brine. This mode of operation is termed "tightlining."

Estimating Hydrocarbon Emissions

In the 1980s, a study was conducted on the operations of the caverns and the brine storage reservoir to estimate hydrocarbon emissions to the air from the reservoir for permitting purposes. LSU conducted the study, based on mathematical modeling of transfer processes, and generated a computer simulation to perform calculations. Samples of the brine were taken upstream from the the reservoir. The result of the computer simulation was approximately 2.5 tons of hydrocarbon emissions per year based on maximum crude throughput of 600 MM bbls/yr.

With this permit application, it was not possible to generate the same computer simulation as done by LSU in the 1980s. However, a detailed review of the study was conducted and determined veritable. A further evaluation of the cavern and brine system was performed using EPA's Water9 software. Similar results were found using the maximum crude throughput of 600 MM bbls/yr and concentration data of the brine from the LSU study. In Mode 2, the resulting emissions were 1.74 tpy of hydrocarbons. A conservative estimate of 30% brine displaced to the reservoir was used to model Mode 2 in a year-round operation. Although the amount of brine displaced to the reservoir under Mode 1 is higher (100%) than Mode 2, the concentration of the hydrocarbons detected in the brine during Mode 1 operation is lower (0.021 ppm) compared to 0.062 ppm in Mode 2. Therefore, according to Water9 calculations, potential emissions are greatest during Mode 2 operation.

Lafourche Parish, Louisiana **LOOP LLC Port Complex**

Source ID:

EQT008 13-78 Fourchon Booster Station No. 2 Fuel Tank No.2

Given:

Tank Type Contents

Vertical Fixed Roof Diesel

Throughput Volume

1,175,041 gal 23,000,000 gal/yr

Calculation Methodology:

EPA TANKS 4.0.9d Program Software

Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr] Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

		TANKS Emission	Average		Emission
			Hourly Rate	_	Rate
Pollutant		[lbs/yr]	[lb/hr]	[lb/hr]	[tpy]
Total VOC			0.10		0.46
	Benzene	1.80	0.0002	0.0002	0.001
	Ethylbenzene		0.0003	0.0003	0.001
	n-Hexane		0.00004	0.00004	0.0002
	Toluene	21.09	0.002	0.002	0.011
	Xylenes	54.40	900.0	900.0	0.027

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

	13-78	Lafourche Parish	Louisiana	LOOP LLC	Vertical Fixed Roof Tank	Fourchon Booster Station No. 2 Fuel Tank No.2
Identification	User Identification:	City:	State:	Company:	Type of Tank:	Description:

Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Tumovers: Net Throughput(gal/yr): Is Tank Heated (y/n):	z	22.00 100.00 20.00 11.00 1,175,041.14 19.57 23,000,000.00
Paint Characteristics Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition:	White/White Good White/White Good	
Roof Characteristics Type: Height (ft) Slope (ft/ft) (Cone Roof)	Cone	0.00
Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)		0.00

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d Emissions Report - Detail Format Liquid Contents of Storage Tank

13-78 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

Liquid Surf. Bulk Temperature (deg F) Temp Avg. Min. Max. (deg F) A
Liquid Bulk Temp ax. (deg F)
×.
Vapor Avg.
Vapor Pressure (psia) g. Min. Me
sia) Max.
Vapor Mol. Weight.
Liquid Mass Fract.
Vapor Mass Fract.
Mol. Weight
Basis for Vapor Pressure Calculations
is for Vapo

Emissions Report - Detail Format Detail Calculations (AP-42) **TANKS 4.0.9d**

13-78 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

Annual Emission Calcaulations	
Standing Losses (Ib): Vapor Space Volume (cu ft): Vapor Dentity (Ib/cu ft): Vapor Space Expansion Factor: Vented Vapor Saturation Factor:	275.9623 94,575.0287 0.0002 0.0391 0.9943
Tank Vapor Space Volume: Vapor Space Volume (cu ft): Tank Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft): Average Liquid Height (ft): Roof Outage (ft):	94,575,0287 100,0000 12,0417 22,0000 11,0000 1,0417
Roof Outage (Cone Roof) Roof Outage (ft): Roof Height (ff): Roof Slope (ft/ft): Shell Radius (ft):	1.0417 0.0000 0.0625 50.0000
Vapor Density Vapor Density (b/cu ft): Vapor Density (b/cu ft): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Daily Ave. Liquid Surface Temp. (deg. R): Daily Average Ambient Temp. (deg. F):	0.0002 130.0000 0.0090 529.6574 68.0375
Ideal Gas Constant K (psia cuff ((lb-mol-deg R)); Liquid Bulk Temperature (deg. R); Tank Paint Solar Absorptance (Shell); Tank Paint Solar Absorptance (Roof); Daily Total Solar Insulation Factor (Btufsqft day);	10.731 527.7275 0.1700 0.1700 1,443.5256
Vapor Space Expansion Factor Vapor Space Expansion Factor Daily Vapor Penerature Range (deg. R): Breather Vent Pressure Range (psia): Breather Vent Press. Setting Range(psia): Vapor Pressure at Daily Average Liquid	0.0391 20.5932 0.0028 0.0000
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R):	0.0077 0.0105 529,6574 524,5691 534,8057 19,0583
Vented Vapor Saturation Factor Vented Vapor Saturation Factor: Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.9943

rage 5 of 6

file://C:\Program Files\Tanks409d\summarydisplay.htm

9	
ot	
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age	
2	

Vapor Space Outage (ft):	12.0417
Working Losses (Ib):	640,4892
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0000
Annual Net Throughput (gal/yr.):	23,000,000,000
Annual Turnovers:	19.5738
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	1,175,041.1430
Maximum Liquid Height (ft):	20.0000
Tank Diameter (ft):	100.0000
Working Loss Product Factor:	1.0000

TANKS 4.0 Report

916.4515

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

13-78 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	640.49	275.96	916.45
Hexane (-n)	0.25	0.11	0.36
Benzene	1.26	0.54	1.80
Toluene	14.74	6.35	21.09
Unidentified Components	553.09	238.31	791.40
Ethylbenzene	2.04	0.88	2.92
Xylene (-m)	38.02	16.38	54.40
1,2,4-Trimethylbenzene	31.09	13.39	44.48

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT009 15-78 Fourchon Booster Station Standby Generator

805 hp 500 hrs Brake Horsepower

Operation Time

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr] Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [ib/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

	Emission	Average	Max	Annual
	Factor	Hourly Rate	Ĭ	Ш
Pollutant	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
PM ₁₀	0.0007	0.56	0.56	0.14
SO ₂ ⁽¹⁾	0.0004	0.33	0.33	0.08
NOx	0.024	19.32	19.32	4.83
00	0.0055	4.43	4.43	1.11
Total VOC	0.000705	0.57	0.57	0.14

=mission =	Average	Max	Annual
Factor ⁽³⁾	Hourly Rate	Hourly Rate	Emission Rate
lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
5.43E-06	0.004	0.004	0.001
.97E-06	0.002	0.002	0.000
1.35E-08	0.001	0.001	0.000
3 4 4 5 31	tor ⁽³⁾ 10-hr] 3E-06 7E-06	-	0.001

Notes:

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT011 17-78 Clovelly Dome - Operations Center Standby Generator

671 hp 500 hrs Brake Horsepower Operation Time

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr] Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [ib/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

	Emission	Average	Max	Annuai
	Factor	Hourly Rate	Hourly Rate Hourly Rate	Emission Rate
Pollutant	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
PM ₁₀	0.0007	0.47	0.47	0.12
SO ₂ ⁽¹⁾	0.0004	0.27	0.27	0.07
NO,	0.024	16.10	16.10	4.03
8	0.0055	3.69	3.69	0.92
Total VOC	0.000705	0.47	0.47	0.12

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽³⁾	đ١	Hourly Rate	Emission Rate
Speciation ⁽²⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Benzene	5.43E-06	0.004	0.004	0.001
Toluene	1.97E-08	0.001	0.001	0.000
Xylenes	1.35E-08	0.001	0.001	0.000

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT012 18-78 Clovelly Dome - Emergency Crude Transfer Pump

Brake Horsepowe Operation Time

860 hp 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [ib/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

	Emission	Average	Max	Annual
	Factor	Hourly Rate	Hourly Rate	Emission Rate
Pollutant	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
PM ₁₀	0.0007	09'0	09:0	0.15
SO ₂ ⁽¹⁾	0.0004	0.35	0.35	0.09
Š, Š	0.024	20.64	20.64	5.16
00	0.0055	4.73	4.73	1.18
Total VOC	0.000705	0.61	0.61	0.15

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽³⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽²⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Benzene	5.43E-06	0.005	0.005	0.001
Toluene	1.97E-06	0.00	0.002	0.000
Xylenes	1.35E-06	0.001	0.001	0.000

Notes:

- (1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.
- (2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.
 (3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT013 19-78 Clovelly Dome - Portable Diesel Generator

Brake Horsepower Operation Time

10 hp 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

	Emission	Average	Max	Annual	. !
	Factor	Hourly Rate	Hourly Rate	Emission Rate	<u> </u>
Pollutant	[lb/hp-hr]	[lb/hr]		[tpy]	<u>ଜ</u>
PM ₁₀	0.0022	0.02	0.02	0.01	Ace
SO ₂	0.00205	0.02	0.02	0.01	Ber
NOx	0.031	0.31	0.31	90.0	뎐
00	0.00668	0.07	0.07	0.02	<u>T</u>
Total VOC	0.00247	0.02	0.02	0.01	X

	Emission	Average	Max.	Annual
VOC TAP	Factor ⁽²⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽¹⁾	[lb/hp-hr]	[lb/hr]		[tpy]
Acetaldehyde	5.37E-06	0.000	000'0	0.000
Benzene	6.53E-06	0.000	0.000	0.000
Formaldehyde	8.26E-06	0.000	0.000	0.000
Toluene	2.86E-06	.0.000	0.000	0.000
Xylenes	2.00E-06	0.000	0.000	0.000

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04. (2) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT014 20-78 Clovelly Fire Pump

Given:

Diesel Fuel Rate

Operation Time

1.92 MMBtu/hr 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Fuel Rate [MMBtu/hr] x AP-42 Emission Factor [lb/MMBtu]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

	Emission	Average	Max	Annual	
	Factor	Hourly Rate	Hourly Rate Hourly Rate	Emission Rate	<u>ŏ</u>
Pollutant	[ib/MMBtu]	[lb/hr]	[lb/hr]	[tpy]	Spe
PM ₁₀	0.31	0.59	0.59	0.15	AG
SO ₂	0.29	0.56	0.56	0.14	Вег
NO _x	4.41	8.46	8.46	2.11	For
00	0.95	1.82	1.82	0.46	
Total VOC	0.35	0.67	0.67	0.17	×

	Emission	Average	Max	Annial
VOC TAP	Factor	Hourly Rate	Ĕ	Emission Rate
Speciation ⁽¹⁾	[lb/MMBtu]	[lb/hr]		[tpy]
Acetaldehyde	0.000767	0.001	0.001	0.000
Benzene	0.000933	0.002	0.002	0.000
Formaldehyde	0.00118	0.002	0.002	0.001
Toluene	0.000409	0.001	0.001	0.000
Xylenes	0.000285	0.001	0.001	0.000

Notes: (1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT015 21-78 Clovelly Dome - Standby Generator - Brine Storage Reservoir

108 hp 500 hrs **Brake Horsepowe** Operation Time

Calculation Methodology;

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industriat Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

	Emission	Average	Max	Annual	
	Factor	Hourly Rate	Hourly Rate	Emission Rate	VOC 1
Pollutant	[lb/hp-hr]	[lb/hr]		[tpy]	Specia
PM ₁₀	0.0022	0.24	0.24	90.0	Acetalo
SO ₂	0.00205	0.22	0.22	90.0	Benzer
NO _x	0.031	3.35	3.35	0.84	Formal
8	0.00668	0.72	0.72	0.18	Toluen
Total VOC	0.00247	0.27	0.27	0.07	Xviene

	Emission	Average	Max	Annual
VOC.TAP	Factor ⁽²⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽¹⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Acetaldehyde	5.37E-08	0.001	0.001	0.000
Benzene	6.53E-06	0.001	0.001	0.000
Formaldehyde	8.26E-06	0.001	0.001	0.000
Toluene	2.86E-06	0.000	0.000	0.00
Xvienes	2.00E-08	0.000	0.000	0.000

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04. (2) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

LOOP LLC Port Complex Lafourche Parish, Louisiana

Source ID: EQT0

EQT016 23-88 Clovelly Dome - Tank 1 Operations Center

Given:

Contents Tank Type Volume

Gasoline RVP 13 Horizontal

> Volume Throughput

1,000 gal 9,000 gal/yr

Calculation Methodology:

EPA TANKS 4.0.9d Program Software

Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr] Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

	TANKS			Annual
	Emission	Average	Max	Emission
	Report	w	 Hourly Rate 	Rate
Pollutant	[lbs/yr]		[lb/hr]	[tpy]
Total VOC	545.65	90.0	90.0	0.27
Вепzепе	2.67	0.0003	0.0003	0.001
Cumene (Isopropyl benzene)	0.03	0.000003	0.00003	0.00002
Ethylbenzene	0.21	0.00002	0.00002	0.0001
n-Hexane	2.39	0.0003	0.0003	0.001
Toluene	3.04	0.0003	0.0003	0.002
Xylenes	0.87	0.0001	0.0001	0.0004

TANKS 4.0.9d Emissions Report - Detail Format Tank Indentification and Physical Characteristics

Identification

User Identification:
City:
City:
State:
Company:
Type of Tank:
Description:
Company:
Tank 1 Operations Center

 Tank Dimensions
 11.00

 Shell Length (ft):
 4.00

 Diameter (ft):
 4.00

 Volume (gallons):
 1,000.00

 Turnovers:
 9.00

 Net Throughput(gallyr):
 9,000.00

 Is Tank Heated (y/n):
 N

 Is Tank Underground (y/n):
 N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition Good

Breather Vent Settings
Vacuum Settings (psig):
Pressure Settings (psig)
0.00

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



Emissions Report - Detail Format Liquid Contents of Storage Tank **TANKS 4.0.9d**

23-88 - Horizontal Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Basis for Vapor Pressure Calculations	Option 4: RVP=13, ASTM Slope=3 Option 2: A=7,04383, B=1573,267, C=208.56 Option 2: A=6,905, B=1211,033, C=220.79 Option 2: A=6,814, B=1201.53, C=222.65 Option 2: A=6,875, B=1444,255, C=213.21 Option 2: A=6,876, B=1171.17, C=224.41 Option 2: A=6,93666, B=1460.793, C=207.78 Option 2: A=6,954, B=1344.8, C=219.48 Option 2: A=7,009, B=1462.266, C=215.11
Mol. Weight	92.00 120.19 78.11 84.16 106.17 86.17 114.22 120.20 92.13 89.36
Vapor Mass Fract.	0.0001 0.004 0.0004 0.0004 0.0000 0.0001 0.0056 0.9823
Liquid Mass Fract.	0.0250 0.0180 0.0024 0.0140 0.0100 0.0400 0.0700 0.7700
Vapor Mol. Weight.	62.0000 120.1900 78.1100 84.1600 106.1700 114.2200 120.2000 92.1300 61.6765 106.1700
psia) Max.	9.1432 0.0367 1.7516 1.8000 0.1804 2.7992 0.0831 0.5204 10.7107
Vapor Pressure (psia) g. Min. Mi	7.5979 0.0247 1.3336 1.3791 0.1282 2.1671 0.0575 0.3832 10.7060
Vapor Avg.	8 3423 0.0302 1.5308 1.5780 0.1524 2.4667 0.0693 0.4474 10.7314
Liquid Bulk Temp (deg F)	98.06
urf. eg F) Max.	75.14
Daily Liquid Surf. Temperature (deg F) 3. Min. M	64.84
Dai Temp Avg.	66.69
Month	All
Mixture/Component	Gasoline (RVP 13) 1,2,4-Trimethylbenzene Benzene Cyclohexane Ethylbenzene Hexane (-n) Isooctane Isoproyl benzene Tolkene Unidentified Components Xylene (-m)



Emissions Report - Detail Format Detail Calculations (AP-42) **TANKS 4.0.9d**

23-88 - Horizontal Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Annual Emission Calcaulations	
Standing Losses (Ib): Vapor Space Volume (cu ft): Vapor Density (Ibl/cu ft): Vapor Space Expansion Factor. Vented Vapor Saturation Factor.	434.8189 88.0446 0.0910 0.2802 0.5307
Tank Vapor Space Volume: Vapor Space Volume (cu ft): Tank Diameter (ft): Fefetive Diameter (ft): Vapor Space Outage (ft): Tank Shell Length (ft):	88.0446 4.0000 7.4867 2.0000 11.0000
Vapor Density Vapor Density (lb/cu ft): Vapor Mecular Weight (lb/lb-mole): Vapor Mecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Daily Average Ambient Temp. (deg. R): Daily Average Ambient Temp. (deg. F): Ideal Gas Constant R (psia cuft (lb-mol-deg R)): Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell): Daily Total Solar Insulation Factor (Brusonf day):	0.0910 62.0000 8.3423 529.6574 68.0375 10.731 527.7275 0.1700
Vapor Space Expansion Factor Vapor Space Expansion Factor Daily Vapor Pressure Range (deg. R): Daily Vapor Pressure Range (psia): Breather Vant Press. Setting Range(psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Daily Ang. Liquid Surface Temp. (deg. R): Daily Max. Liquid Surface Temp. (deg. R): Daily Max. Liquid Surface Temp. (deg. R): Daily Ambient Temp. Range (deg. R):	0.2802 20.5832 1.5452 0.0000 8.3423 7.5979 91432 529.6574 524.5081 534.8057 19.0583
Vented Vapor Saturation Factor Vented Vapor Saturation Factor Vented Vapor Staturation Factor: Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): Vapor Space Outage (ft): Vapor Molecular Weight (Ib/Ib-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Annual Net Throughout (cal/rr):	0.5307 8.3423 2.0000 110.8334 62.0000 8.3423 9.000.0000
Williad Not throughout (Barry)	2000

12/3/2010



12/3/2010

Annual Turnovers: Turnover Factor: Tank Diameter (ft): Working Loss Product Factor:

TANKS 4.0 Report

9.0000 1.0000 1.0000 1.0000

545,6523

Total Losses (Ib):

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

23-88 - Horlzontal Tank Lafourche Parish, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Sasoline (RVP 13)	110.83	434.82	545.65
Hexane (-n)	0.49	1.91	2.39
Benzene	0.54	2.13	2.67
Xylene (-m)	0.18	69.0	0.87
Isopropyl benzene	0.01	0.03	0.03
1,2,4-Trimethylbenzene	0.01	90.0	0.07
Cyclohexane	0.07	0.29	0.37
Unidentified Components	108.87	427.13	536.00
Isooctane	00:00	0.00	0.00
Toluene	0.62	2.42	3.04
Ethylbenzene	0.04	0.17	0.21

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT017 24-88 Clovelly Dome - Tank 2 Operations Center

Given:

Fank Type Contents

Gasoline RVP 13 Horizontal

Throughput Volume

1,000 gal 9,000 gal/yr

Calculation Methodology:

EPA TANKS 4.0.9d Program Software

Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr] Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr] Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

	TANKS			Annual
	Emission	Average	Max	Emission
	Report	Hourly Rate	Hourly Rate	Rate
Pollutant	[lbs/yr]	[lb/hr]	[lb/hr]	[tpy]
Total VOC	545.65	90.0	90.0	0.27
Benzene	2.67	0.0003	0.0003	0.001
Cumene (Isopropyl benzene)	0.03	0.000003	0.00003	0.00002
· ·	0.21	0.00002	0.00002	0.0001
n-Hexane	2.39	0.0003	0.0003	0.001
Toluene	3.04	0.0003	0.0003	0.002
Xylenes	0.87	0.0001	0.0001	0.0004

TANKS 4.0.9d Emissions Report - Detail Format Tank Indentification and Physical Characteristics

Identification
User Identification:
City:
State:
Company:
Type of Tank:
Description:
Company:
Tank 2 Operations Center

 Tank Dimensions
 11.00

 Shell Length (ft):
 4.00

 Diameter (ft):
 1,000

 Volume (gallons):
 1,000

 Turnovers:
 9.00

 Net Throughput(gal/yr):
 N

 Is Tank Heated (y/n):
 N

 Is Tank Underground (y/n):
 N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition Good

Breather Vent Settings
Vacuum Settings (psig):
Pressure Settings (psig)
0.00

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



Page 2 of 6

TANKS 4.0.9d Emissions Report - Detail Format Liquid Contents of Storage Tank

24-88 - Horizontal Tank Lafourche Parish, Louisiana

Liquid Surf. Bulk Vapor Pressure (psia) Mol. Temperature (deg F) Temp Vapor Pressure (psia) Mol. Month Aven Min Max Weight.	All 69.99 64.84 75.14 68.06 8.3423 7.5979 9.1432 62.0000	0.0302 0.0247 0.0367 120.1900		1,5780 1,3791 1,8000 84,1600	U	2.1671	114,2200	0.0693 0.0575 0.0831 120.2000		10.7314 10.7060 10.7107 61.6765	
Liquid Vapor Mass Mass Fract. Fract.		0.0250 0.0001	0.0049	_	0.0004	0.0100 0.0044	0.0000	0.0050 0.0001	0.0056	0.9823	0.0016
Mol. Basis for Vapor Pressure Weight Calculations		20.19 Option 2: A=7.04383, B=1573.267, C=208.56	78.11 Option 2: A=6.905, B=1211.033, C=220.79	84.16 Option 2: A=6.841, B=1201.53, C=222.65	106.17 Option 2: A=6.975, B=1424.255, C=213.21	86.17 Option 2: A=6.876, B=1171.17, C=224.41	14.22	120.20 Option 2: A=6.93666, B=1460.793, C=207.78	92.13 Option 2: A=6.954, B=1344.8, C=219.48	89.36 ·	06.17 Option 2: A=7.009, B=1462.266, C=215.11



Emissions Report - Detail Format Detail Calculations (AP-42) **TANKS 4.0.9d**

24-88 - Horizontal Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Standing Losses (Ib): Vapor Space Volume (cut f): Vapor Space Expansion Factor: Vapor Space Expansion Factor: Vapor Space Expansion Factor: Vapor Space Volume: Vapor Space Volume: Vapor Space Volume: Vapor Space Volume: Vapor Space Volume: Vapor Space Volume: Vapor Space Volume: Vapor Space Volume: Vapor Density Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Density (Ib/Cut f): Vapor Pressure at Daily Vapor (Geg. R): Vapor Space Expansion Factor Vapor Space Expansion Factor Vapor Space Expansion Factor Vapor Space Expansion Factor Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Liquid Vapor Pressure at Daily Maximum Factor Vapor Pressure at Daily Maximum Factor Vapor Pressure at Daily Average Liquid Vapor Pressure at Daily Average Liquid Vapor Pressure at Daily Average Liquid Vapor Pressure at Daily Average Liquid Vapor Pressure at Daily Average Liquid Vapor Pressure at Daily Average Liquid Vapor Pressure at Daily Average Liquid Vapor Pressure at Daily Average Liquid Vapor Molecular Velain Saluration Factor Vapor Pressure at Daily Average Liquid Vapor Molecular Velain Saluration Factor Vapor Pressure at Daily Average Liquid Vapor Pressure at Daily Average Liquid Vapor Pressure		
in (cu ff): sion Factor: sion Factor: ation Factor: ation Factor: ation (cu ff): (ft): (ft): ature (psia): ature (psia): ature (psia): soorptance (Shell): ature (psia): soorptance (Shell): ature (psia): soorptance (Shell): s	Standing Losses (lb):	434.8189
actor: factor: filt: filt: werage Liquid deg, R): ance (Shell): n ctor factor: fact	Vapor Space Volume (cu ft):	88.0446
factor: Factor: factor: factor: factor: sele; sele; filt: fi	Vapor Density (lb/cu ft):	0.0910
ractor. ft): http://werage Lquid saia): Temp. (deg. R): amp. (deg. R): ance (Shell): noc (Shell): noc (Shell): ing Range(psia): ing Range(psia): ing Range(psia): ing Range(psia): ing Range(psia): ing Range(psia): ing Range(psia): actor sector: actor	Vapor Space Expansion Factor:	0.2802
h): bulb-mole): verage Liquid ssia): Temp, (deg. R): amp, (deg. R): ance (Shell): n ctor Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): ng Range (deg. R): Temp, (deg R):	Vented Vapor Saturation Factor;	0.000
volume (cu ft): weter (ft): s Gutage (ft): ength (ft): in (lb/cu ft): ty (lb/cu ft): ty (lb/cu ft): ty (lb/cu ft): ty (lb/cu ft): ty (lb/cu ft): ty (lb/cu ft): ty (lb/cu ft): ty (lb/cu ft): ty (lb/cu ft): to an an an an an an an an an an an an an	Tank Vapor Space Volume:	0.70
meter (ft): ength (ft): ength (ft): ength (ft): ength (ft): ength (ft): y (Ib/cu ft): ure at Daily Average Liquid emperature (psia): emperature (psia): emperature (beg. R): emperature (deg. R): emperature (deg. R): colar Absorptance (Shell): colar Absorptance (Shell): colar Insulation usqft day): Expansion Factor Expansion Factor Expansion Factor Expansion Factor Total Surface Temp. (deg R): quid Surface Temp. (deg R):	Vapor Space Volume (cu ft):	88.0446
mineter (ft): ength (ft): engt	Tank Diameter (ft):	4.0000
e outage (ff): ength (ff): ty (lb/cu ff): ular Weight (lb/lb-mole): uure at Daily Average Liquid emperature (psia): e Ambient Temp. (deg. R): e Ambient Temp. (deg. F): onstant R ('lb-mole9R R): emperature (deg. R): colar Absorptance (Shell): olar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): usoft day): Expansion Factor Expansion Factor I Emperature Range (deg. R): Pressure Range (psia): ure at Daily Average Liquid emperature (psia): ure at Daily Maximum Liquid emperature (psia): ure at Daily Maximum Liquid emperature (psia): iquid Surface Temp. (deg R): quid Surface Temp. (deg R): quid Surface Temp. (deg R): iquid Surface Temp. (deg R): saular Weight (Ib/lb-mole): ure at Daily Average Liquid: emperature (psia): so Cutage (ff):	Effective Diameter (ft):	7.4867
ly (lb/cu ft): ure at Daily Average Liquid emperature (psia): ure at Daily Average Liquid emperature (psia): et Ambient Temp. (deg. R): et Ambient Temp. (deg. R): et Ambient Temp. (deg. R): colar Absorptance (Shell): olar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Shell): colar Absorptance (Geg. R): Pressure Range (Ceg. R): Pressure Range (Ceg. R): Pressure Range (Ceg. R): rure at Daily Average Liquid emperature (psia): ure at Daily Maximum Liquid emperature (psia): quid Surface Temp. (deg. R): quid Surface Temp. (deg. R): quid Surface Temp. (deg. R): riquid Surface Temp. (deg. R): riquid Surface Temp. (deg. R): cluid Sur	Vapor Space Outage (11): Tank Shell Length (ft):	11.0000
mole); (deg. R); (deg. F); (Shell); (Shell); (Shell); (Shell); (Shell); (Shell); (Shell); (Shell); (Shell); (Geg. R)	Vapor Density	
ge Liquid p. (deg. R): (deg. F): (Shell): ge (deg. R): ge Liquid num Liquid	Vapor Density (Ib/cu ft):	62 0000
r. (deg. R): (deg. F): (Shell)	Vapor Pressure at Daily Average Liquid	
(Shell): (Shell): (Shell): (Shell): (Shell): (Sale): (Sale): (Geg R): (Geg	Surface Temperature (psia):	529 6574
(Shell): (Shell): ge (deg. R): ge (deg. R): stal): ge Liquid num	Daily Average Ambient Temp. (deg. F):	68.0375
R); (Shell); (shell); ge (deg. R); ge (deg. R); ge Liquid um Liquid	Ideal Gas Constant R	10 731
rr. ge (deg. R): ge (deg. R): sampe(psia): deg Liquid num Liquid num Liquid p. (deg R): p. (deg R): p. (deg R): ge Liquid: mole):	Liquid Bulk Temperature (deg. R):	527.7275
rr. ge (deg. R): sasia): sange(bsia): ge Liquid num Liquid num Liquid p. (deg R): p. (deg R): ge Liquid: ge Liquid:	Tank Paint Solar Absorbtance (Shell):	0.1700
rr. pa (deg. R); paia); paia); ampe(paia); ampe(paia); num Liquid num Liquid num Liquid num Liquid num Cideg R); p. (deg R); p. (deg R); p. (deg R); p. (deg R); mole); ge Liquid:	Daily Total Solar Insulation	0303 077
rr; ge (deg. R); ge (deg. R); sange(psia); ge Liquid num Liquid num Liquid num Liquid num Liquid num Liquid num Liquid num Liquid num Liquid ge Liquid:	Factor (Btu/sqrt day):	1,445.0200
ge (deg. R): sisals): sisals): sisals): ge Liquid rum Liquid rum Liquid p. (deg R): p. (deg R): ge Liquid: ge Liquid: mole):	Vapor Space Expansion Factor	0 2802
psia); amge(psia); amge(psia); que Liquid num Liquid num Liquid p, (deg R); p, (deg R); p, (deg R); ge Liquid; ge Liquid;	Daily Vanor Temperature Range (deg. R):	20.5932
ange(psia); ge Liquid num Liquid num Liquid num Liquid p. (deg R); p. (deg R); ge Liquid: mole);	Daily Vapor Pressure Range (psia):	1.5452
rum Liquid num Liquid num Liquid num Liquid num Liquid p. (deg R); p. (deg R); deg R); ge Liquid; mole);	Breather Vent Press. Setting Range(psia):	0.0000
num Liquid num Liquid num Liquid p. (deg R); p. (deg R); deg. R); deg. R); mole); mole);	Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.3423
num Liquid p. (deg R); p. (deg R); p. (deg R); deg. R); ge Liquid: mole);	Vapor Pressure at Daily Minimum Liquid	
num Liquid p. (deg R); p. (deg R); p. (deg R); seg. R); more p. (deg R); ege Liquid:	Surface Temperature (psia):	7.5979
p. (deg R); p. (deg R); p. (deg R); deg. R); ge Liquid: mole);	Vapor Pressure at Daily Maximum Liquid	00770
p. (deg K); p. (deg R); p. (deg R); gge Liquid: mole);	Surface Temperature (psia):	500 5574
in (leg N). Joy (leg N). Joy (leg N). Joy (leg N). Joy (leg N). Joy (leg N). Joy (leg N). Joy (leg N). Joy (leg N).	Daily Avg. Liquid Surface Lemp. (deg K).	524 5001
fig. R): ge Liquid: mole):	Daily Min. Liquid Surface Temp. (deg N).	534 BOS7
or: ge Liquid: mole): ge Liquid	Daily Ambient Temp. Range (deg. R):	19.0583
or: ge Liquid: mole); ge Liquid	Vented Vapor Saturation Factor	
Daily Average Liquid: ature (psia): ge (ft): leight (loffb-mole): Daily Average Liquid ature (psia):	Vented Vapor Saturation Factor.	0.5307
arure (psia): ge (ft): leight (lb/lb-mole): Daily Average Liquid ature (psia):	Vapor Pressure at Daily Average Liquid:	CCACO
ge (n). Jeight (lb/lb-mole): Daily Average Liquid ature (psia):	Variace Temperature (psia):	2 0000
leight (lb/lb-mole): Daily Average Liquid ature (psia):	vapor opace odrage (ii).	
	Working Losses (Ib):	110.8334
	Vapor Pressure at Daily Average Liquid	
	Surface Temperature (psia):	8.3423





Annual Turnovers: Turnover Factor: Tank Diameter (ft): Working Loss Product Factor:

TANKS 4.0 Report

9.0000 1.0000 4.0000 1.0000

545.6523

Total Losses (Ib):

TANKS 4.0.9d Emissions Report - Detail Format Individual Tank Emission Totals

Emissions Report for: Annual

24-88 - Horizontal Tank Lafourche Parlsh, Louisiana

		Losses(lbs)	
Сотролента	Working Loss	Breathing Loss	Total Emissions
Gasoline (RVP 13)	110.83	434.82	545.65
Hexane (-n)	0.49	1.91	2.39
Benzene	0.54	2.13	2.67
Isooctane	00:00	0.00	00.00
Toluene	0.62	2.42	3.04
Ethylbenzene	0.04	0.17	0.21
Xylene (-m)	0.18	0.69	0.87
Isopropyl benzene	0.01	0.03	0.03
1,2,4-Trimethylbenzene	0.01	90.0	0.07
Cyclohexane	0.07	0.29	0.37
Unidentified Components	108.87	427.13	536.00

12/3/2010

TANKS 4.0 Report

Lafourche Parish, Louisiana LOOP LLC Port Complex

> EQT018 Source ID:

35-88 Clovelly Dome - Fire School Pump

Given:

400 hp 500 hrs Brake Horsepower

Operation Time

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

	Emission	Average Hourty Rate	Max Hourty Rate	Annual Emission Rate	VOC TAP
Pollutant	[lp/hp-hr]	[lb/hr]	[lb/hr]	•	Speciation
PM ₁₀	0.0022	0.88	0.88	0.22	Acetaldehy
so ₂	0.00205	0.82	0.82	0.21	Benzene
, ON	0.031	12.40	12.40	3.10	Formaldeh
8	0.00668	2.67	2.67	0.67	Toluene
Total VOC	0.00247	0.99	0.99	0.25	Xylenes

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽²⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽¹⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Acetaldehyde	5.37E-06	0.002	0.002	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.003	0.003	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-08	0.001	0.001	0.000

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04.

(2) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT019 38-91 Clovelly Dome - Operations Center Fire Pump

500 hp 500 hrs Brake Horsepower

Operation Time

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

	Emission	Average	Max	Annual
	Factor	Hourly Rate	Hourly Rate	Emission Rate
Pollutant	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
PM ₁₀	0.0022	1.10	1.10	0.28
SO ₂	0.00205	1.03	1.03	0.26
NOx	0.031	15.50	15.50	3.88
00	0.00668	3.34	3.34	0.84
Total VOC	0.00247	1.24	1.24	0.31

	Emission	Average	Мах	Annual
VOC TAP	Factor ⁽²⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽¹⁾	[ib/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Acetaldehyde	5.37E-06	0.003	0.003	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.004	0.004	0.001
Toluene	2.88E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04. (2) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

> EQT020 Source ID:

5-99 Clovelly Dome - Crude Oil Tank Farm Firewater Pump

1100 hp 500 hrs Power Output

Operation Time

Calculation Methodology:

Average Hourly Rate [lb/hr] = Power Output [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

Vendor Data

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

	Emission	Average	Max	Annual
	Factor	Hourly Rate	Hourly Rate	Emission Rate
Pollutant	[lb/hr]	[lb/hr]		[tpy]
PM ₁₀	0.18	0.18	0.18	0.05
SO ₂ ⁽¹⁾ [ib/hp-hr]	0.0004	0.44	0.44	0.11
×ON	28.92	28.92	28.92	7.23
00	1.34	1.34	1.34	0.34
Total VOC	0.45	0.45	0.45	0.11

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽³⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽²⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Benzene	0.0000054	900'0	9000	0.001
Toluene	0.0000020	0.002	0.002	0.001
Xylenes	0.0000014	0.001	0.001	0.000

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809°S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

C-K Associates, LLC

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT021 1-07 470 bhp Emergency Generator (Small Boat Harbor)

Brake Horsepower Operation Time

470 bhp 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

	Emission	Average	Max	Annual
	Factor	Hourly Rate	Hourly Rate	E
Pollutant	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
PM ₁₀	0.0022	1.03	1.03	0.26
SO ₂	0.00205	96.0	96.0	0.24
×ON	0.031	14.57	14.57	3.64
00	0.00668	3.14	3.14	0.78
Total VOC	0.00247	1.16	1.16	0.29

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽¹⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽¹⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Acetaldehyde	5.37E-06	0.003	0.003	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.004	0.004	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

Notes: (1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT022 2-07 470 bhp Emergency Generator (Tank Facility)

Brake Horsepower

470 bhp 500 hrs

Operation Time

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

					•
	Emission	Average	Max	Annual	
	Factor	Hourly Rate	Hourly Rate	Emission Rate	_
Pollutant	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]	<u>v,</u>
PM ₁₀	0.0022	1.03	1.03	0.26	_
so ₂	0.00205	96.0	96.0	0.24	_
NO,	0.031	14.57	14.57	3.64	
8	0.00668	3.14	3.14	0.78	•
Total VOC	0.00247	1.16	1.16	0.29	

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽¹⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽¹⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Acetaldehyde	5.37E-06	0.003	0.003	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.004	0.004	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-08	0.001	0.001	0.000

Notes: (1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT023

3-07 671 bhp Emergency Generator (Clovelly Dome)

Brake Horsepower

Operation Time

671 bhp 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr] Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [tb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

	Emission	Average	Max	Annual
	Factor	Hourly Rate	Hourly Rate	Emission Rate
Poll⊔tant	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
PM ₁₀	0.0007	0.47	0.47	0.12
SO ₂ ¹⁾	0.00040	0.27	0.27	0.07
Ŏ	0.024	16.10	16.10	4.03
00	0.0055	3.69	3.69	0.92
Total VOC	0.00071	0.47	0.47	0.12

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽³⁾	as.	Hourly Rate	Emission Rate
Speciation ⁽²⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Benzene	5.43E-06	0.004	0.004	0.001
Toluene	1.97E-06	0.001	0.001	0.000
Xylenes	1.35E-08	0.001	0.001	0.000

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.
(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT024

4-07 671 bhp Emergency Generator (Clovelly Control Room)

Given: Brake Horsepower

Operation Time

671 bhp 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr] Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [ib/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

	Emission	Average	Max	Annual
	Factor	Hourly Rate	Hourly Rate	Emission Rate
Pollutant	[lb/hp-hr]	[lb/hr]		[tpy]
PM ₁₀	0.0007	0.47	0.47	0.12
50 ₂ ¹⁾	0.00040	0.27	0.27	0.07
, ×ON	0.024	16.10	16.10	4.03
00	0.0055	3.69	3.69	0.92
Total VOC	0.00071	0.47	0.47	0.12

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽³⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽²⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Benzene	5.43E-06	0.004	0.004	0.001
Toluene	1.97E-06	0.001	0.001	0.000
Xylenes	1.35E-08	0.001	0.001	0.000

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.
(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT025 5-07 268 bhp Emergency Generator (OC Warehouse)

Brake Horsepower

Operation Time

268 bhp 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [ib/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

					Į
	Emission	Average	Max	Annual	
	Factor	Hourly Rate	Hourly Rate	Emission Rate	<u>×</u>
Pollutant	[lb/hp-hr]	[lb/hr]		[tpy]	<u>ତ</u>
PM ₁₀	0.0022	69'0	0.59	0.15	<u>₹</u>
SO ₂	0.00205	0.55	0.55	0.14	<u>ಹ</u>
NO _x	0.031	8.31	8.31	2.08	<u>r</u>
00	0.00668	1.79	1.79	0.45	<u>မ</u>
Total VOC	0.00247	0.66	0.66	0.17	×

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽¹⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽¹⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Acetaldehyde	5.37E-06	. 0.001	0.001	0.000
Benzene	6.53E-06	0.002	0.002	0.000
Formaldehyde	8.26E-06	0.002	0.002	0.001
Toluene	2.86E-08	0.001	0.001	0.000
Xylenes	2.00E-08	0.001	0.001	0.000

Notes: (1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Lafourche Parish, Louisiana LOOP LLC Port Complex

Source ID:

EQT026 6-07 168 bhp Emergency Generator (LOCAP)

Brake Horsepower Operation Time

168 bhp 500 hrs

Calculation Methodology:
Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference: EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

	Emission	Average	Max	Annual
	Factor	Hourly Rate	Hourly Rate	Emission Rate
Pollutant	[lb/hp-hr]	[tb/hr]	[lb/hr]	[tpy]
PM ₁₀	0.0022	0.37	0.37	0.09
SO ₂	0.00205	0.34	0.34	0.09
NO,	0.031	5.21	5.21	1.30
00	0.00668	1.12	1.12	0.28
Total VOC	0.00247	0.41	0.41	0.10

	Emission	Average	Max	Annual
VOC TAP	Factor ⁽¹⁾	Hourly Rate	Hourly Rate	Emission Rate
Speciation ⁽¹⁾	[lb/hp-hr]	[lb/hr]	[lb/hr]	[tpy]
Acetaldehyde	5.37E-06	0.001	0.001	0.000
Benzene	6.53E-06	0.001	0.001	0.000
Formaldehyde	8.26E-06.	0.001	0.001	0.000
Toluene	2.86E-06	0.000	0.000	0.000
Xylenes	2.00E-06	0.000	0.000	0.000

Notes:

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

C-K Associates, LLC

LOOP LLC Port Complex Lafourche Parish, Louisiana

Source ID:

FUG001 10-78 Fugitive Emissions

Given:

Component	nent Type Service Count	Heavy liquid (HL)	Heavy liquid (HL)	
	Component Type	valves	pump seals	flanges

Calculation Methodology:

VOC Average Hourly Rate [lb/hr] = API Emission Factor [lb/component-day] × Component Count / Conversion Factor [24 hrs/day] VOC TAP Speciate Hourly Rate [lb/hr] = Liquid Mass Fraction × Total VOC Average Hourly Rate [lb/hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] × Annual Operating Hours

Reference: Emission Factors for Oil and Gas Production Operations, Table 8, Publication Number 4615, American Petroleum Institute, January 1995

Emission Calculation:

	Heavy Crude	Average	Max	Annual
	Emission Factor	Hourly Rate	Hourly Rate	Emission Rate
Component Type	[lb/component-day]	[lb/hr]	[lb/hr]	[tpy]
valves	0.000013	0.0001	0.0001	0.0004
pump seals	Ϋ́	1	1	ı
flanges	0.000022	0.0009	0.0009	0.0037

		Average	Max	Annual
	Liquid Mass	Hourly Rate	Hourly Rate	Emission Rate
VOC TAP Speciation	Fraction ⁽¹⁾	[lb/hr]	[lb/hr]	[tpy]
Benzene	0900'0	0.000006	0.000006	0.00002
Cumene (Isopropy! benzene)	0.0010	0.000001	0.000001	0.000004
Ethylbenzene	0.0040	0.000004	0.000004	0.00002
n-Hexane	0.0040	0.000004	0.000004	0.00002
Toluene	0.0100	0.00000	0.00000	0.00004
Xylenes	0.0140	0.000013	0.000013	0.00006

Notes; (1) VOC TAP Speciation Profile from TANKS 4.09.d for Crude Oil (RVP 8).

0.0041

0.0009

0.0009

Total VOC

LOOP LLC Port Complex Lafourche Parish, Louisiana

Source ID: Insignificant Tanks
Facility-wide

Calculation Methodology:

EPA TANKS 4.0.9d Program Software

Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation and Summary:

Tank ID	Tank Description	Tank Capacity [gallons]	Tank Contents	TANKS Emission Report Total VOC [lbs/yr]	Annual Emission Rate [tpy]
2-78	Fuel Tank for Emergency Generator (Clovelly Dome)	8,200	Diesel	18.20	0.01
22-78	Erner. Crude Transfer Pump Fuel Tank (Clovelly Dome)	8,200	Diesel	2.29	0.001
25-88	Tank 3 Operations Center Fuel Tank (Clovelly Dome)	550	Diesel	0.16	0.0001
26-88	Tank 4 Operations Center Tank (Clovelly Dome)	4,000	Diesel	1.16	0.0006
27-88	Tank 5 Fourchon Booster Station Tank	1,000	Diesel	0.30	0.0002
28-88	Tank 6 Fourchon Booster Station Emer. Generator Fuel Tank	322	Diesel	0.11	0.0001
29-88	Tank 7 Fourchon Booster Station Dock Fuel Tank	560	Diesel	0.16	0.0001
30-88	Tank 8 Clovelly Day Tank for Fire Pump	80	Diesel	0.02	0.00001
31-88	Tank 9 Clovelly Day Tank for Generator	116	Diesel	0.03	0.00002
32-88	Tank 10 Clovelly Underground Slop Oil Tank by Lab	2,000	Slop Oil (Crude)	17.82	0.01
34-88	Tank 12 Small Boat Harbor Tank	260	Diesel	0.07	0.00004
36-89	Day Tank for Operations Center Standby Generator (Clovelly Dome)	94	Diesel	0.06	0.00003
37-91	Small Boat Harbor Diesel Tank	564	Diese!	0.20	0.0001

INSIGNIFICANT ACTIVITIES TANKS 4.0.9d REPORTS

5510A C-K Associates, LLC

Page 40 of 40 TANKS 4.0 Report

TANKS 4.0.9d
Emissions Report - Summary Format
Total Emissions Summaries - All Tanks in Report

Emissions Report for: Annual

			-	1
Tank Identification				Losses (IDS)
22-78	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana	2.29
25-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana	0.16
26-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana	1.16
2-78	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana	18.20
27-88	100P LLC	Horizontal Tank	Lafourche Parish, Louisiana	0.30
28-88	LOOP LLC	Vertical Fixed Roof Tank	Lafourche Parish, Louisiana	0.11
29-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana	0.16
30-88	LOOP LLC	Vertical Fixed Roof Tank	Lafourche Parish, Louisiana	0.02
31-88	LOOP LLC	Vertical Fixed Roof Tank	Lafourche Parish, Louisiana	0.03
32-88	100P LLC	Horizontal Tank	Lafourche Parish, Louisiana	17.82
34-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana	0.07
36-89	LOOP LLC	Vertical Fixed Roof Tank	Lafourche Parish, Louisiana	0.06
37-91	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana	0.20
Total Emissions for all Tanks:				40.57

TANKS 4.0.9d

Tank Indentification and Physical Characteristics **Emissions Report - Summary Format**

Identification User Identification:

2-78 Lafourche Parish Louisiana

City: State: Company: Type of Tank: Description:

LOOP LLC Horizontal Tank Diesel Fuel Tank for Emergency Generators

Tank Dimensions
Shell Length (ft):
Diameter (ft):
Volume (gallons):
Turnovers:
Net Throughput(gal/yr):
Is Tank Heated (y/n):
Is Tank Underground (y/n):

22.00 8.00 8,200.00 243.90 2,000,000.00

zz

Paint Characteristics Shell Cotor/Shade: Shell Condition

White/White Good

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

0.0

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

2-78 - Horizontal Tank Lafourche Parish, Louisiana

Basis for Vapor Pressure Calculations	Option 1: VP60 = .0065 VP70 = .009 Option 2: A=7.04383, B=1573.267, C=208.56 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.975, B=1424.255, C=213.21 Option 2: A=6.975, B=1344.8, C=224.41 Option 2: A=6.954, B=1344.8, C=219.48 Option 2: A=7.009, B=1462.266, C=215.11
Mol. B Weight C	188.00 78.11 78.11 106.17 92.13 189.60 106.17
Vapor Mass Fract.	0.0485 0.0020 0.0032 0.0004 0.0230 0.8635 0.0594
Liquid Mass Fract.	0.0100 0.0000 0.0001 0.0000 0.0003 0.9866 0.0029
Vapor Mol. Weight.	130.0000 120.1900 78.1100 106.1700 86.1700 92.1300 134.5121
psia) Max.	0.0105 0.0367 1.7516 0.1804 2.7992 0.5204 0.0074
Vapor Pressure (psia) g. Min. Me	0.0077 0.0247 1.3336 0.1282 2.1671 0.3832 0.0070
Vapor Avg.	0.0090 0.0302 1.5308 0.1524 2.4667 0.4474 0.0077
Liquid Bulk Temp (deg F)	68.06
og F) Max.	75.14
Daily Liquid Surf. Temperature (deg F) 3. Min. M	64.84
Dai Temp Avg.	66.69
Month	All
Mixture/Component	Distillate fuel oil no. 2 1,2,4-Trimethylbenzene Benzene Ethylbenzane Hexane (-n) Toluene Unidentiffed Components Xylene (-m)

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

2-78 - Horizontal Tank Lafourche Parish, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	16.13	2.06	18.20
Hexane (-n)	0.01	0.00	0.01
Benzene	0.03	00:00	0.04
Toluene	0.37	0.05	0.42
Ethylbenzene	0.05	0.01	90.0
Хуюпе (-т)	96:0	0.12	1.08
1,2,4-Trimethylbenzene	0.78	0.10	0.88
Unidentified Components	13.93	1.78	15.71

TANKS 4.0.9d

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

 Identification:
 22-78

 User Identification:
 Lafourche Parish

 City:
 Lafourche Parish

 State:
 Louisiana

 Company:
 LOOP LLC

 Type of Tank:
 Horizontal Tank

 Description:
 Emergency Crude Transfer Pump Diesel Fuel Tank

 Tank Dimensions
 22.00

 Shell Length (ft):
 8.00

 Diameter (ft):
 8.200

 Volume (gallons):
 8,200

 Turnovers:
 0.00

 Net Throughput(galyr):
 8,000

 Is Tank Heated (y/n):
 N

 Is Tank Underground (y/n):
 N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition Good

Breather Vent Settings (psig): 0.00 Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



Emissions Report - Summary Format Liquid Contents of Storage Tank **TANKS 4.0.9d**

22-78 - Horizontal Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Basis for Vapor Pressure Calculations	Option 1: VP60 = .0065 VP70 = .009 Option 2: A=7.04383, B=1573.267, C=208.56 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.975, B=1424.255, C=213.21 Option 2: A=6.876, B=1171.17, C=224.41 Option 2: A=6.954, B=1344.8, C=219.48 Option 2: A=7.009, B=1462.266, C=215.11
Mol. Weight	188.00 120.19 78.11 106.17 86.17 92.13 189.60
Vapor Mass Fract.	0.0485 0.0020 0.0032 0.0004 0.0230 0.8635 0.0594
Liquid Mass Fract.	0.0100 0.0000 0.0001 0.0000 0.0003 0.9866 0.0029
Vapor Mol. Weight.	130.0000 120.1900 78.1100 106.1700 86.1700 92.1300 134.5121
osia) Max.	0.0105 0.0367 1.7516 0.1804 2.7992 0.5204 0.0074 0.1510
Vapor Pressure (psia) rg. Min. Ma	0.0077 0.0247 1.3336 0.1282 2.1671 0.3832 0.0070
Vapor Avg.	0.0090 0.0302 1.5308 0.1524 2.4667 0.4474 0.0077
Liquid Bulk Temp (deg F)	98 06
rf. g F) Max.	75.14
Daily Liquid Surf. Temperature (deg F) 3. Min. M	64.84
Dai Temp Avg.	66.69
Month	₹
Mixture/Component	Distillate fuel oil no. 2 1,2,4-Trimethylbenzene Benzene Etrylbenzene Hexane (-n) Toluene Unidentiffed Components Xylene (-m)

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

22-78 - Horizontal Tank Lafourche Parish, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.22	2.06	2.29
Hexane (-n)	00:00	0:00	00:00
Benzene	00:00	0:00	00:0
Toluene	0.01	0.05	0.05
Ethylbenzene	00:0	0.01	0.01
Xylene (-m)	0.01	0.12	0.14
1,2,4-Trimethylbenzene	0.01	0.10	0.11
Unidentified Components	0.19	1.78	1.97

TANKS 4.0.9d Emissions Report - Summary Format Tank Indentification and Physical Characteristics

25-88 Lafourche Parish	Louisiana I OOD I I C	Horizontal Tank	Tank 3 Operations Center Diesel Tank
Identification User Identification: City:	State:	Type of Tank:	Description:

6.00 4.00 550.00	550.00
	ZZ
Tank Dimensions Shell Length (ft): Diameter (ft): Volume (gallons):	Net Throughput(galyr): Is Tank Heated (y/n): Is Tank Underground (y/n):

White/White Good	
Paint Characteristics Shell Color/Shade: Shell Condition	

Breather Vent Settings
Vacuum Settings (psig):
Pressure Settings (psig)

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



Emissions Report - Summary Format Liquid Contents of Storage Tank **TANKS 4.0.9d**

25-88 - Horizontal Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Liquid Surf. Bulk Vapor Liquid Vapor Liquid Vapor Mol. Basis for Vapor Pressure Temperature (deg F) Temp Vapor Pressure (psia) Mol. Mass Mass Mol. Basis for Vapor Pressure 3. Min. Max. (deg F) Avg. Min. Max. Weight. Fract. Fract. Weight Calculations	64.84 75.14 68.06 0.0090 0.0077 0.0105 130.0000 0.0100 0.0485 120.19 Option 1: VP60 = .0065 VP70 = .009 1.5308 1.5308 1.3336 1.7516 78.1100 0.0000 0.0020 78.11 Option 2: A=7.04383 B=1573.267, C=208.56 1.5308 1.5308 1.3336 1.7516 78.1100 0.0001 0.0020 78.11 Option 2: A=6.905, B=1211.033, C=220.79 0.1524 0.1282 0.1804 106.1700 0.0000 0.0002 106.17 Option 2: A=6.905, B=1424.255, C=213.21 0.4474 0.3832 0.5204 92.1300 0.0000 0.0000 0.0000 92.13 Option 2: A=6.905, B=1424.255, C=219.48 0.0077 0.0070 0.0074 134.5121 0.9866 0.8835 18960 0.0594 106.17 Option 2: A=6.905, B=1462.286, C=215.11
Daily Liqu Temperatur Avg.	69.99 64.8
Month	₹
Mixture/Component	Distillate fuel oil no. 2 1,2,4-Trimethylbenzene Benzene Ethylbenzene Hexane (-n) Tolkene Unidentified Components Xylene (-m)

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

25-88 - Horizontal Tank Lafourche Parish, Louisiana

		Assess	
		LUSSES(IDS)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.02	0.14	0.16
Hexane (-n)	0:00	00:00	0.00
Benzene	00:00	00:0	00.0
Toluene	0:00	00:0	0.00
Ethylbenzene	00:00	00:00	0.00
Xylene (-m)	0.00	0.01	0.01
1,2,4-Trimethylbenzene	00:0	0.01	0.01
Unidentified Components	0.01	0.12	0.13

TANKS 4.0.9d

TANKS 4.0 Report

Tank Indentification and Physical Characteristics **Emissions Report - Summary Format**

26-88	Lafourche Parish	Louisiana	LOOP LLC	Horizontal Tank	Tank 4 Operations Center Diesel Tank
Identification User Identification:	City:	State:	Company:	Type of Tank:	Description:

10.00 8.00 4,000.00 2.00 8,000.00 ΖZ Tank Dimensions
Shell Length (ft):
Diameter (ft):
Volume (gallons):
Tumovers:
Net Throughput(gal/yr):
Is Tank Heated (y/n):
Is Tank Underground (y/n):

White/White Good Paint Characteristics Shell Color/Shade: Shell Condition

0.00 Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig) Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



Emissions Report - Summary Format Liquid Contents of Storage Tank **TANKS 4.0.9d**

26-88 - Horizontal Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

	08.56 7.79 4.1 8 8
Basis for Vapor Pressure Calculations	Option 1: VP60 = .0065 VP70 = .009 Option 2: A=7.04383, B=1573.267, C=2208.56 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.975, B=1424.255, C=213.21 Option 2: A=6.876, B=1474.17, C=224.41 Option 2: A=6.954, B=13448, C=219.48 Option 2: A=7.009, B=1462.266, C=215.11
Mol. Weight	188.00 120.19 78.11 106.17 86.17 92.13 189.60
Vapor Mass Fract.	0.0485 0.0020 0.0032 0.0004 0.0230 0.8635 0.0594
Liquid Mass Fract.	0.0100 0.0000 0.0001 0.0000 0.0003 0.9866 0.0029
Vapor Mol. Weight.	130,0000 120,1900 78,1100 106,1700 86,1700 92,1300 134,5121
osia) Max.	0.0105 0.0367 1.7516 0.1804 2.7992 0.5204 0.0074
Vapor Pressure (psia) g. Min. MR	0.0077 0.0247 1.3336 0.1282 2.1671 0.3832 0.0070
Vapor Avg.	0.0090 0.0302 1.5308 0.1524 2.4667 0.4474 0.0077
Liquid Bulk Temp (deg F)	98.06
urf. ag F) Max.	75.14
Daily Liquid Surf. Temperature (deg F) Min. M	64.84
Daily L Tempera Avg.	66.69
Month	₹
Mixture/Component	Distillate fuel oil no. 2 1,2,4-Trimethylbenzene Benzene Ethylbenzene Hexane (-n) Toluene Unidentified Components Xylene (-m)

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

26-88 - Horizontal Tank Lafourche Parlsh, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.22	7 6.0	1.16
Hexane (-n)	00:00	00:00	00:00
Benzene	00:00	00:00	00.00
Toluene	0.01	0.02	0.03
Ethylbenzene	00:00	00:00	00:00
Xylene (-m)	0.01	90:0	0.07
1,2,4-Trimethylbenzene	0.01	0.05	90.0
Unidentified Components	0.19	0.81	1.00

TANKS 4.0.9d Emissions Report - Summary Format

Tank Indentification and Physical Characteristics

Identification: 27-88
User Identification: Lafourche Parish
City: Lafourche Parish
State: LOOP LLC
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Tank 5 Booster Station Diesel Tank

 Tank Dimensions
 11.00

 Shell Length (ft):
 4.00

 Diameter (ft):
 4.00

 Volume (gallons):
 1,000.00

 Turnovers:
 1.50

 Net Throughput(gal/yr):
 N

 Is Tank Heated (y/n):
 N

 Is Tank Underground (y/n):
 N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition Good

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

0.00

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)



Emissions Report - Summary Format Liquid Contents of Storage Tank **TANKS 4.0.9d**

27-88 - Horizontal Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

	08.56 0.79 4.1 8
Basis for Vapor Pressure Calculations	Option 1: VP60 = .0065 VP70 = .009 Option 2: A=7.04383, B=1573.267, C=208.56 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.975, B=1424.255, C=213.21 Option 2: A=6.876, B=1171.17, C=224.41 Option 2: A=6.954, B=1344.8, C=219.48 Option 2: A=6.954, B=1462.266, C=215.11
Mol. Weight	188.00 120.19 78.11 106.17 86.17 92.13 189.60
Vapor Mass Fract.	0.0485 0.0020 0.0032 0.0004 0.0230 0.8635 0.0594
Liquid Mass Fract.	0.0100 0.0000 0.0001 0.0000 0.0003 0.9866 0.0029
Vapor Mol. Weight.	130.0000 120.1900 78.1100 106.1700 86.1700 92.1300 134.5121
osia) Max.	0.0105 0.0367 1.7516 0.1804 2.7992 0.5204 0.0074
Vapor Pressure (psia) g. Min. Mē	0.0077 0.0247 1.3336 0.1282 2.1671 0.3832 0.0070
Vapor Avg.	0.0090 0.0302 1.5308 0.1524 2.4667 0.4474 0.0077
Liquid Bulk Temp (deg F)	68.06
ff. g F) Max.	75.14
Daily Liquid Surf. Temperature (deg F) g. Min. M	64.84
Dail Temp Avg.	66.69
Month	All
Mixture/Component	Distillate fuel oil no. 2 1,2,4-Trimethylbenzene Benzene Ethylbenzene Hexane (-n) Toluene Unidentified Components Xylene (-m)

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

27-88 - Horizontal Tank Lafourche Parish, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuet oil no. 2	0.04	0.26	0.30
Hexane (-n)	00:00	0.00	0.00
Benzene	00.00	00.0	0.00
Toluene	00:00	0.01	0.01
Ethylbenzene	00:00	0.00	0.00
Xylene (-m)	00:00	0.02	0.02
1,2,4-Trimethylbenzene	0:00	0.01	0.01
Unidentified Components	0.04	0.22	0.26

TANKS 4.0.9d

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

28-88	Latourche Pansn Louisiana	LOOP LLC	Tank 6 Fourchon Booster Station Emergency Generator Diesel Tank
identification User identification:	State:	Company:	Description:

	5.00	3.70	4.00	3.00	321.73	4.66	1,500.00	
Tank Dimensions	Shell Height (ft):	Diameter (ft):	Liquid Height (ft)	Avg. Liquid Height (ft):	Volume (gallons):	Tumovers	Net Throughput(gal/yr):	Is Tank Heated (y/n):

	0.00
White/White Good White/White Good	Cone
Paint Characteristics Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Color/Shade:	Roof Characteristics Type: Height (ft) Slope (ft/ft) (Cone Roof)

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

0.00

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)



Emissions Report - Summary Format Liquid Contents of Storage Tank **TANKS 4.0.9d**

28-88 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Vapor Liquid sure (psia) Mol. Mass	Max. Weight.	77 0.0105 130.0000	47 0.0367 120.1900 0.0100	36 1,7516 78,1100 0,0000	0.1804 106.1700	171 2.7992 86.1700 0.0000	0.5204 92.1300	0.0074 134.5121	69 0.1510 106.1700 0.0029
Liquid Bulk Temp Vapor Pressure (psia)	(deg F) Avg. Min.	68.06 0.0090 0.0077	0.0302 0.0247	1.5308 1.3336	0.1524 0.1282	2.4667 2.1671	0.4474 0.383	0.0077 0.0070	0,1273 0,1069
Daily Liquid Surf. Temperature (deg F)	Avg. Min. Max.								
	Month	Distillate fuel oil no. 2 All 69.99	1.2.4-Trimethylbenzene					Unidentified Components	

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

28-88 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.04	90:0	0.11
Hexane (-n)	00:00	00:00	00.00
Benzene	00.0	00:0	00:00
Toluene	00:00	00:00	00:00
Ethylbenzene	0.00	00:00	00.00
Xylene (-m)	00:00	00:00	0.01
1,2,4-Trimethylbenzene	00.0	00.0	0.01
Unidentified Components	0.04	0.06	0.09

Tank Indentification and Physical Characteristics **Emissions Report - Summary Format TANKS 4.0.9d**

Identification User Identification:

City: State: Company: Type of Tank: Description:

Lafourche Parish Louisiana LOOP LLC Horizontal Tank Tank 7 Fourchon Booster Station Dock Diesel Tank

Tank Dimensions
Shell Length (ft):
Diameter (ft):
Volume (gallons):
Turnovers:
Net Throughput(gal/yr):
Is Tank Heated (y/n):
Is Tank Underground (y/n):

6.00 4.00 560.00 1.00 560.00

zz

White/White Good Paint Characteristics Shell Color/Shade: Shell Condition

0.00 Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig) Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

29-88 - Horizontal Tank Lafourche Parish, Louisiana

A CONTRACTOR OF THE CONTRACTOR	VP70 = .009 11573.267, C=208.56 211.033, C=220.79 124.255, C=213.21 171.17, C=224.41 144.8, C=219.48
Basis for Vapor Pressure Calculations	Option 1: VP60 = .0065 VP70 = .009 Option 2: A=7 04383, B=1573.267, C=208.56 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.975, B=1424.255, C=213.21 Option 2: A=6.876, B=1171.17, C=224.41 Option 2: A=6.954, B=1344.8, C=219.48 Option 2: A=7.009, B=1462.266, C=215.11
Mol. Weight	188.00 120.19 78.11 106.17 86.17 92.13 189.60
Vapor Mass Fract.	0.0485 0.0020 0.0032 0.0004 0.0230 0.8635 0.0594
Liquid Mass Fract.	0.0100 0.0000 0.0001 0.0000 0.0003 0.9866 0.0029
Vapor Mol. Weight.	130.0000 120.1900 78.1100 106.1700 86.1700 92.1300 134.5121
psia) Max.	0.0105 0.0367 1.7516 0.1804 2.7992 0.5204 0.0074 0.1510
Vapor Pressure (psia) g. Min. ME	0.0077 0.0247 1.3336 0.1282 2.1671 0.3832 0.0070
Vapor Avg.	0.0090 0.0302 1.5308 0.1524 2.4667 0.4474 0.0077
Liquid Bulk Temp (deg F)	68.06
urf. ag F.) Max.	75.14
Daily Liquid Surf. Temperature (deg F) g. Min. M	64.84
Dai Temp Avg.	66.69
Month	All
Mixture/Component	Distillate fuel oil no. 2 1.2.4-Trimethylbenzene Benzene Ethylbenzene Hexane (-n) Toluene Unidentified Components Xylene (-m)

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

29-88 - Horizontal Tank Lafourche Parish, Louisiana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.02	0.14	0.16
Hexane (-n)	0.00	00:00	00:00
Benzene	0.00	00:00	00:00
Toluene	0.00	00:00	0.00
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.01	0.01
1,2,4-Trimethylbenzene	0.00	0.01	0.01
Unidentified Components	0.01	0.12	0.14

TANKS 4.0.9d Emissions Report - Summary Format Tank Indentification and Physical Characteristics

30-88 Lafourche Parish Louisiana LOOP LC Vertical Fixed Roof Tank Tank 8 Clovelly Day Tank for Fire Pump	5.00 1.85 4.00 3.00 80.43 2.00 160.86	White/White Good White/White Good	Cone 0.00	0.00
identification User Identification: City: State: Company: Type of Tank: Description:	Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gal/yr): Is Tank Heated (y/n):	Paint Characteristics Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition:	Roof Characteristics Type: Height (ft) Slope (ft/ft) (Cone Roof)	Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

Meterological Data used in Emissions Calculations; New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



Emissions Report - Summary Format Liquid Contents of Storage Tank **TANKS 4.0.9d**

30-88 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

	. 99
Basis for Vapor Pressure Calculations	Option 1: VP60 = .0065 VP70 = .009 Option 2: A=7.04383, B=1573.267, C=2208.56 Option 2: A=6.905, B=1211.033, C=220.79 Option 2: A=6.975, B=1424.255, C=213.21 Option 2: A=6.976, B=1444.8, C=224.41 Option 2: A=6.954, B=1344.8, C=219.48 Option 2: A=7.009, B=1462.266, C=215.11
Mol. Weight	188.00 120.19 78.11 106.17 86.17 92.13 189.60
Vapor Mass Fract.	0.0485 0.0020 0.0032 0.0004 0.0230 0.8635 0.0594
Liquid Mass Fract.	0.0100 0.0000 0.0001 0.0000 0.0003 0.9866 0.0029
Vapor Mol. Weight.	130,0000 120,1900 78,1100 106,1700 86,1700 92,1300 134,5121
psia) Max.	0.0105 0.0367 1.7516 0.1804 2.7992 0.5204 0.0074
Vapor Pressure (psia) g. Min. MR	0.0077 0.0247 1.3336 0.1282 2.1671 0.3832 0.0070
Vapor Avg.	0.0090 0.0302 1.5308 0.1524 2.4667 0.0477 0.1273
Liquid Bulk Temp (deg F)	98.06
orf. Sg F.) Max.	75.14
Daily Liquid Surf. Temperature (deg F) g. Min. M	64.84
Dail Temp Avg.	69.69
Month	All
Mixture/Component	Distillate fuel oil no. 2 1,2,4-Trimethylbenzene Benzene Ethylbenzene Hexane (-n) Toluene Unidentified Components Xylene (-m)

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

30-88 - Vertical Fixed Roof Tank Lafourche Parish, Louislana

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	00:00	0.02	0.02
Hexane (-n)	00:00	0.00	0.00
Benzene	00:0	0.00	00:00
Toluene	00:0	00:00	0.00
Ethylbenzene	00:0	00:00	0.00
Xylene (-m)	00:00	0.00	0.00
1,2,4-Trimethylbenzene	00:0	00.0	0.00
Unidentified Components	00.00	0.01	0.02

TANKS 4.0.9d Emissions Report - Summary Format Tank Indentification and Physical Characteristics

31-88 Lafourche Parish Louisiana LOOP LLC Vertical Fixed Roof Tank Tank 9 Clovelly Day Tank for Generator (Brine Storage Reservoir)	5.00 2.22 4.00 3.00 115.82 1.00 N	White/White Good White/White Good	Cone 0.00 0.06	0.00
Identification User Identification: City: State: Company: Type of Tank: Description:	Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Tumovers: Net Throughput(gallyr): Is Tank Heated (y/n):	Paint Characteristics Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition:	Roof Characteristics Type: Height (ft) Slope (ft/ft) (Cone Roof)	Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)



Emissions Report - Summary Format Liquid Contents of Storage Tank **TANKS 4.0.9d**

31-88 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

TANKS 4.0 Report

Basis for Vapor Pressure	ulations	Option 1: VP60 = .0065 VP70 = .009	Option 2: A=7.04383, B=1573.267, C=208.56	A=6.905, B=1211.033, C=220.7	\(\begin{align*} \begin{align*} \beg	Option 2: A=6.876, B=1171.17, C=224.41	Option 2: A=6.954, B=1344.8, C=219.48		Option 2: A=7.009, B=1462.266, C=215.11
Basis for V	Calculations	Option 1: V	Option 2: A	Option 2: A	Option 2: A	Option 2: A	Option 2: A		Option 2: A
Mol.	Weight	188.00	120.19	78.11	106.17	86.17	92.13	189.60	106.17
Vapor	Fract.		0.0485	0.0020	0.0032	0.0004	0.0230	0.8635	0.0594
Liquid	Fract.		0.0100	0.0000	0.0001	0.0000	0.0003	0.9866	0.0029
Vapor Mol.	Weight.	130.0000	120.1900	78.1100	106.1700	86.1700	92.1300	134.5121	106.1700
osia)	Мах.	0.0105	0.0367	1.7516	0.1804	2.7992	0.5204	0.0074	0.1510
Vapor Pressure (psia)	Min.	0.0077	0.0247	1.3336	0.1282	2.1671	0.3832	0.0070	0.1069
Vapor	Avg.	0.0000	0.0302	1.5308	0.1524	2.4667	0.4474	0.0077	0.1273
Liquid Bulk Temp	(deg F)	68.06							
irf. 19 F.)	Мах.								
Daily Liquid Surf. Temperature (deg F)	Min.	64.84							
Dail Temp	Avg.	69.99							
	Month	All							
		Distillate fuel oil no. 2	1.2 4-Trimethylbenzene	Benzene	Ethylbenzene	Hexane (-n)	Toluene	Inidentified Components	Xylene (-m)

TANKS 4.0 Report Page 27 of 40

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

31-88 - Vertical Fixed Roof Tank Lafourche Parlsh, Louisiana

0.02	0.02	0.00	Unidentified Components
0.00	0.00	0.00	1,2,4-Trimethylbenzene
0.00	0.00	0.00	Xylene (-m)
0.00	0.00	0.00	Ethylbenzene
0.00	0.00	0.00	Toluene
0.00	0.00	0.00	Benzene
0.00	0.00	0.00	Hexane (-n)
0.03	0.02	0.00	Distillate fuel oil no. 2
Total Emissions	Breathing Loss	Working Loss	Components
	Losses(lbs)		

TANKS 4.0.9d Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Type of Tank: Description:	Company:	City:	User Identification:
Horizontal Lank Tank 10 Clovelly Underground Slop Oil Tank by Lab	LOOP LLC	Lafourche Parish	32-88

Tank Dimensions Shell Length (ft): Diameter (ft): Volume (galions): Turnovers: Net Throughput(gallyr): Is Tank Heated (y/n): Is Tank Underground (y/n):
≺ Z
7.00 7.00 2,000.00 3.00 6,000.00

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)	
0.00 0.00	

Paint Characteristics Shell Color/Shade: 'Shell Condition

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

32-88 - Horizontal Tank Lafourche Parish, Louisiana

Mixture/Component	Month	D: Ten Avg.	Daily Liquid Surf. Femperature (deg F) Min. M	eg F) Max.	Liquid Bulk Temp (deg F)	Vapo Avg.	Vapor Pressure (psia) g. Min. M	(psia) Max	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Codo di (DVD 5)	ΔII	67 48	67 48	67.48	67.04	3.3261	3.3261	3.3261	50.0000			207.00	Option 4: RVP=5
Clade oil (NVF 3)						0.0274	0.0274	0.0274	120.1900	0.0033	0.0001	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
1, 2, 4- I'llieury Derizerie						0.7362	0.7362	0.7362	114.2300	0.0010	0.0009	114.23	Option 2: A=6.8118, B=1257.84, C=220.74
C,Z,4-IIIIIaulypainaia (iacoccaia)						1.4319	1.4319	1.4319	78.1100	0.0060	0.0107	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Bellzelle						1.4783	1.4783	1.4783	84.1600	0.0070	0.0129	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Cyclolistania						0.1402	0.1402	0.1402	106.1700	0.0040	0.0007	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Heyene (-n)						2.3167	2.3167	2.3167	86.1700	0.0040	0.0115	86.17	Option 2: A=6.876, B=1171.17, C=224.41
leopropy benzene						0.0633	0.0633	0.0633	120.2000	0.0010	0.0001	120.20	Option 2: A=6.93666, B=1460.793, C=207.78
Tolliene						0.4150	0.4150	0.4150	92.1300	0.0100	0.0052	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Inidentified Components						3.6389	3.6284	3.6389	49.0580	0.9497	0.9559	220.76	
Xvlene (-m)						0.1170	0.1170	04470	106 1700	0 0140	0 0020	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

32-88 - Horizontal Tank Lafourche Parish, Louisiana

17.03	0.00	17.03	Unidentified Components
0.09	0.00	0.09	Toluene
0.04	0.00	0.04	Xylene (-m)
0.00	0.00	0.00	Isopropyl benzene
0.01	0.00	0.01	Ethylbenzene
0.23	0.00	0.23	Сусіоћехапе
0.00	0.00	0.00	1,2,4-Trimethylbenzene
0.19	0.00	0.19	Benzene
0.02	0.00	0.02	2,2,4-Trimethylpentane (isooctane)
0.21	0.00	0.21	Hexane (-n)
17.82	0.00	17.82	Crude oil (RVP 5)
Total Emissions	Breathing Loss	Working Loss	Components
	Losses(lbs)		

TANKS 4.0.9d Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Description:	Type of Tank:	Company:	State:	City:	User Identification:	Identification
Tank 12 Small Boat Harbor Diesel Tank	Horizontal Tank	LOOP LLC	Louisiana	Lafourche Parish	34-88	

Tank Dimensions Shell Length (ft): Diameter (ft): Volume (gallons): Turnovers: Net Throughput(gallyr): Is Tank Heated (y/n): Is Tank Underground (y/n):
zz
5.00 3.00 260.00 1.00 260.00

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)	Paint Characteristics Shell Color/Shade: Shell Condition
	White/White Good

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

34-88 - Horizontal Tank Lafourche Parish, Louisiana

		T L	Daily Liquid Surf.	Surf.	Liquid Bulk Temp	Vapo	Vapor Pressure (psia)	(psia)	Vapor Mol.	Liquid	Vapor	Mol.	Basis for Vapor Pressure
Mixture/Component	Month	Avg.	Min	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract	Fract.	Weight	Calculations
AND REPORT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN CO	Section Sectio	***************************************		C. 10.10.10.10.10.10.10.10.10.10.10.10.10.1	September of the Septem	Contract of the latest of the	***************************************				The control of the same of the	
Distillate fuel oil no 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009
1 2 4-Trimethylhenzene						0.0302	0.0247	0.0367	120.1900	0.0100	0.0485	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylhenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0 Report Page 33 of 40

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

34-88 - Horizontal Tank Lafourche Parish, Louisiana

0.06	0.06	0.01	Unidentified Components
0.00	0.00	0.00	1,2,4-Trimethylbenzene
0.00	0.00	0.00	Xylene (-m)
0.00	0.00	0.00	Ethylbenzene
0.00	0.00	0.00	Toluene
0.00	0.00	0.00	Benzene
0.00	0.00	0.00	Нехапе (-п)
0.07	0.07	0.01	Distillate fuel oil no. 2
Total Emissions	Breathing Loss	Working Loss	Components
	Losses(lbs)		

TANKS 4.0.9d Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Roof Characteristics Type: Height (ft) Slope (ft/ft) (Cone Roof)	Paint Characteristics Shell Color/Shade: Shell Condition Roof Cotor/Shade: Roof Condition:	Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gallyr): Is Tank Heated (y/n):	Identification User Identification: City: State: Company: Company: Type of Tank: Description:
Cone 0.00 0.06	White/White Good White/White Good	5.00 2.00 4.00 3.00 94.00 17.02 1,600.00	36-89 Lafourche Parish Louisiana LOOP LLC Vertical Fixed Roof Tank Day Tank for Operations Center Standby Generator

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

0.0 0.0 0.0

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)





TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

36-89 - Vertical Fixed Roof Tank Lafourche Parish, Louisiana

0.05	0.02	0.04	Unidentified Components
0.00	0.00	0.00	1,2,4-Trimethylbenzene
0.00	0.00	0.00	Xylene (-m)
0.00	0.00	0.00	Ethylbenzene
0.00	0.00	0.00	Toluene
0.00	0.00	0.00	Benzene
0.00	0.00	0.00	Нехапе (-п)
0.06	0.02	0.04	Distillate fuel oil no. 2
Total Emissions	Breathing Loss	Working Loss	Components
	Losses(lbs)		

TANKS 4.0 Report

TANKS 4.0.9d

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Description:	Type of Tank:	Company:	State:	City:	User Identification:	Identification
Small Boat Harbor Diesel Tank	Horizontal Tank	LOOP LLC	Louisiana	Lafourche Parish	37-91	

Is Tank Underground (y/n):	Is Tank Heated (y/n):	Net Throughput(gal/yr):	Turnovers:	Volume (gallons):	Diameter (ft):	Shell Length (ft):	Tank Dimensions
z	z						
		2,256.00	4.00	564.00	4.00	6.00	

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)	Paint Characteristics Shell Color/Shade: Shell Condition
	White/White Good
0.00	

Meterological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

37-91 - Horizontal Tank Lafourche Parish, Louisiana

		1	Daily Liquid Surf.	ŭ. F)	Liquid Bulk Temp	Vapo	Vapor Pressure (psia)	(psia)	Vapor Moi.	Liquid Mass	Vapor	Mol.	Basis for Vapor Pressure
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight	Calculations
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130,0000			188.00	Option 1: VP60 = .0065 VP70 = .009
1 2 4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0100	0.0485	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700		0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	
Xylene (-m)						0 1273	0 4060	0 1510	106 1700		0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

37-91 - Horizontal Tank Lafourche Parish, Louisiana

0.18	0.12	0.05	Unidentified Components
0.01	0.01	0.00	1,2,4-Trimethylbenzene
0.01	0.01	0.00	Xylene (-m)
0.00	0.00	0.00	Ethylbenzene
0.00	0.00	0.00	Toluene
0.00	0.00	0.00	Benzene
0.00	0.00	0.00	Hexane (-n)
0.20	0.14	0.06	Distillate fuel oil no. 2
Total Emissions	Breathing Loss	Working Loss	Components
	Losses(lbs)		

APPENDIX E EPA SUBMITTAL LETTER

5510A C-K Associates, LLC





REGIONAL OFFICES

LAKE CHARLES, LA PH(337)439-8699 FAX(337)439-3337

SHREVEPORT, LA PH(318) 797-8636 FAX(318) 798-0478

HOUSTON, TX PH (281) 397-9016 FAX (281) 397-6637

December 20, 2010

Air Permits
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Re: Title V Permit Application

Louisiana State Permit No. 1560-00027-03 LOOP LLC – LOOP LLC Port Complex

Lafourche Parish, Louisiana LDEQ Agency Interest No. 4634

To Whom It May Concern:

On behalf of LOOP LLC, C-K Associates, LLC submits a copy of the Title V Permit Application on compact disc for the LOOP LLC Port Complex located near Galliano, Lafourche Parish, Louisiana. The facility currently operates under state permit no. 1560-00027-03, issued June 12, 2007.

If you have any questions or require additional information, please contact Cindy Gardner-Leblanc with LOOP LLC at (985) 276-6290 or you may contact me at (225) 755-1000.

Sincerely,

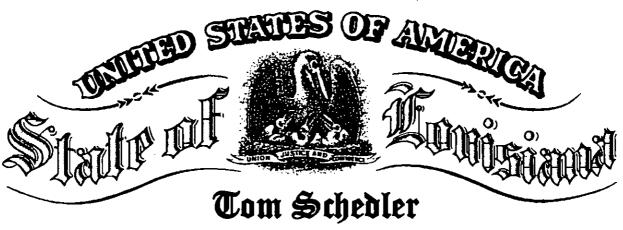
Mark J. Ezell

Air Quality Manager

Enc: As Stated

APPENDIX F CERTIFICATE OF GOOD STANDING

5510A C-K Associates, LLC



SECRETARY OF STATE

As Secretary of State, of the State of Louisiana, I do heroby Certify that

LOOP LLC

A limited liability company domicited in WILMINGTON, DELAWARE,

Filed charter and qualified to do business in this State on October 02, 1996,

I further certify that the records of this Office indicate the company has paid all fees due the Secretary of State, and so far as the Office of the Secretary of State is concerned, is in good standing and is authorized to do business in this State.

I further certify that this certificate is not intended to reflect the financial condition of this company since this information is not available from the records of this Office.

In testimony whereof, I have hereunto set my hand and caused the Seal of my Office to be affixed at the City of Baton Rouge on,

Scordary of State

December 6, 2010

Certificate ID: 10121687#ARK73

To validate this certificate, visit the following web site, go to Commercial Division, Certificate Validation, then follow the instructions displayed.

www.sos.louisiana.gov

Web GSC